

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 11:05:42 ; Search time 135 Seconds
(without alignments)
329.178 Million cell updates/sec

Title: US-10-613-390B-1

Perfect score: 25
Sequence: 1 tattaagggcgctggccctcata 25

Scoring table: IDENTITY_NUC
Gapop 10.0 ; Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 1427136

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:
1: /cgn2_6/ptodata/1/ina/1/COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5/COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A/COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B/COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H/COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS.COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP.COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RR.COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	17.4	69.6	25 3 US-09-396-196G-116728	Sequence 116728,
2	15.8	63.2	25 3 US-09-396-196G-116728	Sequence 116728,
3	14.8	59.2	25 3 US-09-396-196G-86335	Sequence 86335, A
4	14.8	59.2	25 3 US-09-396-196G-86336	Sequence 86336, A
5	14.4	57.6	70 2 US-08-434-001-117	Sequence 117, App
6	14.4	57.6	70 2 US-08-433-585-117	Sequence 117, App
7	14.4	57.6	70 2 US-08-434-425-117	Sequence 117, App
8	14.4	57.6	70 2 US-08-437-667-117	Sequence 117, App
9	14.4	57.6	70 3 US-08-906-955-117	Sequence 117, App
10	14.4	57.6	70 3 US-08-945-909-117	Sequence 117, App
11	14.4	57.6	70 3 US-09-396-002A-117	Sequence 117, App
12	14.4	57.6	70 3 US-10-077-319-117	Sequence 117, App
13	14.4	57.6	70 6 PCT-US96-06060-117	Sequence 117, App
14	14.2	56.8	25 3 US-09-396-196G-26177	Sequence 26177, A
15	14.2	56.8	49 2 US-08-171-389-405	Sequence 405, App
16	14.2	56.8	49 2 US-08-171-389-405	Sequence 405, App
17	14.2	56.8	49 2 US-08-123-936-405	Sequence 405, App
18	14.2	56.8	49 2 US-08-123-936-405	Sequence 405, App
19	14.2	56.8	49 2 US-08-475-228A-405	Sequence 405, App
20	14.2	56.8	49 2 US-08-475-228A-405	Sequence 405, App
21	14.2	56.8	49 3 US-08-482-080A-405	Sequence 405, App
22	14.2	56.8	49 3 US-08-482-080A-405	Sequence 405, App
23	14.2	56.8	49 3 US-09-354-947-405	Sequence 405, App
24	14.2	56.8	49 3 US-09-354-947-405	Sequence 405, App

25	14.2	56.8	49 3 US-09-993-346-405	Sequence 405, App
26	14.2	56.8	49 3 US-09-993-346-405	Sequence 405, App
27	14.2	56.8	49 6 PCT-US93-12388-405	Sequence 405, App
28	14.2	56.8	49 6 PCT-US93-12388-405	Sequence 405, App
29	14.2	56.8	63 3 US-09-508-516-4	Sequence 4, Appl1
30	13.8	55.2	61 3 US-09-513-999C-15155	Sequence 15155, A
31	13.4	53.6	50 3 US-10-131-827-7211	Sequence 7211, Ap
32	13.4	53.6	51 3 US-09-443-199C-1033	Sequence 1033, Ap
33	13.4	53.6	67 2 US-07-977-288A-245	Sequence 245, Ap
34	13.4	53.6	67 2 US-08-256-426B-245	Sequence 245, App
35	13.4	53.6	68 3 US-09-513-999C-23652	Sequence 23652, A
36	13.4	53.6	83 3 US-09-621-976-8355	Sequence 8355, Ap
37	13.2	52.8	25 3 US-09-396-196G-22105	Sequence 22105, A
38	13.2	52.8	25 3 US-09-396-196G-86335	Sequence 86335, A
39	13.2	52.8	25 3 US-09-396-196G-86336	Sequence 86336, A
40	13.2	52.8	25 3 US-09-396-196G-86335	Sequence 86335, A
41	13.2	52.8	28 2 US-08-331-394-46	Sequence 46, Appl1
42	13.2	52.8	28 2 US-08-331-394-51	Sequence 51, Appl1
43	13.2	52.8	28 2 US-08-250-858-46	Sequence 46, Appl1
44	13.2	52.8	28 2 US-08-250-858-51	Sequence 51, Appl1
45	13.2	52.8	28 2 US-08-446-915-46	Sequence 46, Appl1

ALIGNMENTS

```
RESULT 1
US-09-396-196G-116728/c
; Sequence 116728, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 116728
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-09-396-196G-116728

Query Match      69.6%; Score 17.4; DB 3; Length 25;
Best Local Similarity 94.7%; Pred. No. 17;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      6 AGGGGCTTGCGCCCTTAAT 24
        |||||
Db      25 AGGGGCTTGCGCCCTTAAT 7

RESULT 2
US-09-396-196G-116728
; Sequence 116728, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; PRIOR FILING DATE: 1999-09-15
; CURRENT APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
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NUMBER OF SEQ ID NOS: 127806
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 116728
LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-09-396-196G-116728

Query Match
Best Local Similarity 63.2%; Score 15.8; DB 3; Length 25;
Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTAAGGCGCTGGCCCTT 20
DB 7 ATTAAGTGCACGCCCCCT 25

RESULT 3
US-09-396-196G-86335
Sequence 86335, Application US/09396196G
Patent No. 6821724

GENERAL INFORMATION:
APPLICANT: Michael Miltmann
APPLICANT: David Mack
APPLICANT: David Lockhart
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis
FILE REFERENCE: 3101.1
CURRENT APPLICATION NUMBER: US/09/396,196G
CURRENT FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 60/100,678
PRIOR FILING DATE: 1998-09-17
NUMBER OF SEQ ID NOS: 127806
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 86335
LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-09-396-196G-86335

Query Match
Best Local Similarity 59.2%; Score 14.8; DB 3; Length 25;
Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 AAGGCGCTGGCCCTT 22
DB 7 AAGAGCCTGCGCACTTA 24

RESULT 4
US-09-396-196G-86336
Sequence 86336, Application US/09396196G
Patent No. 6821724
GENERAL INFORMATION:
APPLICANT: Michael Miltmann
APPLICANT: David Mack
APPLICANT: David Lockhart
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis
FILE REFERENCE: 3101.1
CURRENT APPLICATION NUMBER: US/09/396,196G
CURRENT FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 60/100,678
PRIOR FILING DATE: 1998-09-17
NUMBER OF SEQ ID NOS: 127806
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 86336
LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-09-396-196G-86336

Query Match 59.2%; Score 14.8; DB 3; Length 25;

Best Local Similarity 88.9%; Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 AAGGCGCTGGCCCTT 22
DB 1 AAGAGCCTGCGCACTTA 18

RESULT 5
US-08-434-001-117/c
Sequence 117, Application US/08434001
Patent No. 5712375

GENERAL INFORMATION:
APPLICANT: JENSEN, KIRK
APPLICANT: CHEN, HANG
APPLICANT: MORRIS, KEVIN
APPLICANT: STEPHENS, ANDREW
APPLICANT: GOLD, LARRY
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
TITLE OF INVENTION: EXPONENTIAL ENRICHMENT: TISSUE
NUMBER OF INVENTIONS: SELEX
NUMBER OF SEQUENCES: 235
CORRESPONDENCE ADDRESS:
ADDRESSER: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/434,001
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-434-001-117

Query Match
Best Local Similarity 57.6%; Score 14.4; DB 2; Length 70;
Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGCGCTGGCCCTTATA 25
DB 60 AATAAGCGCCTGAGAGCTTAACA 37

RESULT 6
US-08-433-585-117/c

Sequence 117, Application US/08433585
Patent No. 5763566
GENERAL INFORMATION:
APPLICANT: JENSEN, KIRK
APPLICANT: CHEN, HANG
APPLICANT: MORRIS, KEVIN
APPLICANT: STEPHENS, ANDREW
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
TITLE OF INVENTION: EXPONENTIAL ENRICHMENT: TISSUE
NUMBER OF SEQUENCES: 235
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/433,585
FILING DATE:
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30.4
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-433-585-117

Query Match 57.6%; Score 14.4; DB 2; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGGCTGGCCCTTATA 25
DB 60 AATAAGCGGCTGGAGCTTTACA 37

RESULT 7
US-08-434-425-117/c
Sequence 117, Application US/08434425
Patent No. 5789157
GENERAL INFORMATION:
APPLICANT: JENSEN, KIRK
APPLICANT: CHEN, HANG
APPLICANT: MORRIS, KEVIN
APPLICANT: STEPHENS, ANDREW
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
TITLE OF INVENTION: EXPONENTIAL ENRICHMENT: TISSUE

TITLE OF INVENTION: SELEX
NUMBER OF SEQUENCES: 235
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/434,425
FILING DATE:
CLASSIFICATION: 536
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30.1
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-434-425-117

Query Match 57.6%; Score 14.4; DB 2; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGGCTGGCCCTTATA 25
DB 60 AATAAGCGGCTGGAGCTTTACA 37

RESULT 8
US-08-437-667-117/c
Sequence 117, Application US/08437667
Patent No. 5864026
GENERAL INFORMATION:
APPLICANT: JENSEN, KIRK
APPLICANT: CHEN, HANG
APPLICANT: MORRIS, KEVIN
APPLICANT: STEPHENS, ANDREW
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
TITLE OF INVENTION: EXPONENTIAL ENRICHMENT: TISSUE
NUMBER OF SEQUENCES: 235
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM pc compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/437,667
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30.2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ. ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-437-667-117

Query Match 57.6%; Score 14.4; DB 2; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGGCCCTTAATA 25
DB 60 AATAAGCGGCGCTGGAGCTTTAACA 37

RESULT 9
US-08-906-955-117/c
Sequence 117, Application US/08906955
Patent No. 6013443
GENERAL INFORMATION:
APPLICANT: HEILIG, JOSEPH S.
APPLICANT: GOLD, LARRY
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
TITLE OF INVENTION: EXPONENTIAL ENRICHMENT: TISSUE
TITLE OF INVENTION: SELBX
NUMBER OF SEQUENCES: 240
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM pc compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/906,955
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/434,001

FILING DATE: 05-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30-5
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ. ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-906-955-117

Query Match 57.6%; Score 14.4; DB 3; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGGCCCTTAATA 25
DB 60 AATAAGCGGCGCTGGAGCTTTAACA 37

RESULT 10
US-08-945-909-117/c
Sequence 117, Application US/08945909
Patent No. 6114120
GENERAL INFORMATION:
APPLICANT: JENSEN, KIRK
APPLICANT: CHEN, HANG
APPLICANT: MORRIS, KEVIN
APPLICANT: STEPHENS, ANDREW
APPLICANT: GOLD, LARRY
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS
TITLE OF INVENTION: ENRICHMENT: TISSUE SELBX
NUMBER OF SEQUENCES: 240
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM pc compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/945,909
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/06060
FILING DATE: 01-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/434,425
FILING DATE: 03-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/437,667
FILING DATE: 03-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/434,001
FILING DATE: 03-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/433,585
FILING DATE: 03-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30C-US

TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-945-909-117

Query Match 57.6%; Score 14.4; DB 3; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGGCCCTTAATA 25
DB 60 AATAAGCGGCGCTGGAGCTTTAACA 37

RESULT 11

US-09-396-002A-117/C
Sequence 117, Application US/09396002A
Patent No. 6376474
GENERAL INFORMATION:
APPLICANT: HEILIG, JOSEPH S.
GOLD, LARRY
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
EXPONENTIAL ENRICHMENT: TISSUE SELEX
NUMBER OF SEQUENCES: 240
CORRESPONDENCE ADDRESS:
ADDRESSER: Swanson & Bratschun, L.L.C.
STREET: 1745 Shea Center Drive, Suite 330
CITY: Highlands Ranch
STATE: Colorado
COUNTRY: USA
ZIP: 80129
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 8.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/396,002A
FILING DATE: 14-Sep-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
APPLICATION NUMBER: 08/434,001
FILING DATE: 05-MAY-1995
APPLICATION NUMBER: 08/906,955
FILING DATE: 05-AUGUST-1997
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30-5/D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 268-0066
TELEFAX: (303) 268-0065
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 117:
US-09-396-002A-117

Query Match 57.6%; Score 14.4; DB 3; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGGCCCTTAATA 25
DB 60 AATAAGCGGCGCTGGAGCTTTAACA 37

RESULT 12

US-10-077-319-117/C
Sequence 117, Application US/10077319
Patent No. 6613526
GENERAL INFORMATION:
APPLICANT: HEILIG, JOSEPH S.
GOLD, LARRY

TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
EXPONENTIAL ENRICHMENT: TISSUE SELEX
NUMBER OF SEQUENCES: 240
CORRESPONDENCE ADDRESS:
ADDRESSER: Swanson & Bratschun, L.L.C.
STREET: 1745 Shea Center Drive, Suite 330
CITY: Highlands Ranch
STATE: Colorado
COUNTRY: USA
ZIP: 80129

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 8.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/077,319
FILING DATE: 14-Feb-2002

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/396,002
FILING DATE: 14-Sep-1999

APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
APPLICATION NUMBER: 08/434,001
FILING DATE: 05-MAY-1995
APPLICATION NUMBER: 08/906,955
FILING DATE: 05-AUGUST-1997

ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson

REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30-5/D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 268-0066
TELEFAX: (303) 268-0065
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 117:
US-10-077-319-117

Query Match 57.6%; Score 14.4; DB 3; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGGCCCTTAATA 25
DB 60 AATAAGCGGCGCTGGAGCTTTAACA 37

RESULT 13

PCT-US96-06060-117/C
Sequence 117, Application PC/TUS9606060

GENERAL INFORMATION:
APPLICANT: JENSEN, KIRK
APPLICANT: CHEN, HANG
APPLICANT: MORRIS, KEVIN
APPLICANT: STEPHENS, ANDREW

APPLICANT: GOLD, LARRY
TITLE OF INVENTION: SYSTEMATIC EVOLUTION OF LIGANDS BY
TITLE OF INVENTION: EXPONENTIAL ENRICHMENT: TISSUE
TITLE OF INVENTION: SELEX
NUMBER OF SEQUENCES: 240
CORRESPONDENCE ADDRESS: 240
ADDRESSER: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3 1/2 diskette, 1.44 MB
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/06060
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624
FILING DATE: 21-OCTOBER-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/434,425
FILING DATE: 05-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/437,667
FILING DATE: 05-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/434,001
FILING DATE: 05-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/433,585
FILING DATE: 05-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX30/PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 117:
SEQUENCE CHARACTERISTICS:
LENGTH: 70 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
PCT-US96-06060-117
Query Match 57.6%; Score 14.4; DB 6; Length 70;
Best Local Similarity 75.0%; Pred. No. 7.3e+02;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 2 ATTAAGGGGCTGAGCCCTTAATA 25
DB 60 AATAAGCGGCTGAGCTTAACA 37
RESULT 14
US-09-396-1966-26177
Sequence 26177, Application US/09396196G
Patent No. 6821724
GENERAL INFORMATION:
APPLICANT: Michael Miltmann
APPLICANT: David Mack

APPLICANT: David Lockhart
APPLICANT: Altmietrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis
FILE REFERENCE: 3101.1
CURRENT APPLICATION NUMBER: US/09/396,196G
CURRENT FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 60/100,678
PRIOR FILING DATE: 1998-09-17
NUMBER OF SEQ ID NOS: 127806
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 26177
LENGTH: 25
TYPE: DNA
ORGANISM: Mus musculus
US-09-396-1966-26177
Query Match 56.8%; Score 14.2; DB 3; Length 25;
Best Local Similarity 84.2%; Pred. No. 7.6e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 3 TTAAGGGGCTGAGCCCTT 21
DB 1 TTAAGGGTCTGAGCCTT 19
RESULT 15
US-08-171-389-405
Sequence 405, Application US/08171389
Patent No. 5578444
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:
ADDRESSER: GeneLabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,389
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175/G19P3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960

```

; INFORMATION FOR SEQ ID NO: 405:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: Human adenosine deaminase gene
US-08-171-389-405

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Query Match          56.8%; Score 14.2; DB 2; Length 49;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy      7 GGGGCGCTGGCCCTTAATA 25
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Db      10 GGGGCGCGCGCGCTTAAGA 28

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Search completed: February 7, 2006, 12:09:00
Job time : 136 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocooperation Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 12:09:14 (Search time 406 Seconds
(without alignments)
51.606 Million cell updates/sec

Title: US-10-613-390B-1

Perfect score: 25

Sequence: 1 tattaaggggcctggccctcaata 25

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 6068529 seqs, 41903697 residues

Total number of hits satisfying chosen parameters: 11614816

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications NA New:*
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2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/ECT_NEW_PUB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3:*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	16	64.0	23	US-10-310-914A-1296097	Sequence 1296097,
C 2	15.8	63.2	21	US-10-310-914A-621697	Sequence 621697,
C 3	15.4	61.6	21	US-10-310-914A-679212	Sequence 679212,
C 4	15.4	61.6	24	US-10-310-914A-679219	Sequence 679219,
C 5	15	60.0	19	US-10-310-914A-627249	Sequence 627249,
C 6	15	60.0	25	US-11-121-849-42167	Sequence 42167, A
C 7	14.8	59.2	25	US-10-310-914A-760090	Sequence 760090,
C 8	14.6	58.4	25	US-11-121-849-615428	Sequence 615428,
C 9	14.4	57.6	18	US-10-310-914A-1160660	Sequence 1160660,
C 10	14.4	57.6	20	US-10-310-914A-236069	Sequence 236069,
C 11	14.4	57.6	21	US-10-310-914A-535269	Sequence 535269,
C 12	14.4	57.6	21	US-10-310-914A-535269	Sequence 535269,
C 13	14.4	57.6	23	US-10-310-914A-1296097	Sequence 1296097,
C 14	14.4	57.6	26	US-10-310-914A-1153244	Sequence 1153244,
C 15	14.2	56.8	19	US-11-101-244-1315095	Sequence 1315095,
C 16	14.2	56.8	19	US-11-083-784-1315095	Sequence 1315095,
C 17	14.2	56.8	22	US-10-310-914A-621697	Sequence 621697,
C 18	14.2	56.8	22	US-10-310-914A-1192905	Sequence 1192905,
C 19	14.2	56.8	25	US-11-121-849-518737	Sequence 518737,
C 20	14.2	56.8	25	US-11-121-849-518738	Sequence 518738,
C 21	13.8	55.2	19	US-10-310-914A-990748	Sequence 990748,
C 22	13.8	55.2	21	US-10-310-914A-679212	Sequence 679212,

C 23	13.8	55.2	23	US-10-310-914A-860902	Sequence 860902,
C 24	13.8	55.2	24	US-10-310-914A-679219	Sequence 679219,
C 25	13.8	55.2	25	US-10-310-914A-1325744	Sequence 1325744,
C 26	13.8	55.2	25	US-11-121-849-28266	Sequence 28266, A
C 27	13.8	55.2	25	US-11-121-849-38739	Sequence 38739, A
C 28	13.8	55.2	25	US-11-121-849-299363	Sequence 299363,
C 29	13.8	55.2	25	US-11-121-849-299364	Sequence 299364,
C 30	13.8	55.2	25	US-11-121-849-299365	Sequence 299365,
C 31	13.8	55.2	25	US-11-121-849-450067	Sequence 450067,
C 32	13.8	55.2	25	US-11-121-849-514431	Sequence 514431,
C 33	13.8	55.2	25	US-11-136-527-260490	Sequence 260490,
C 34	13.8	55.2	25	US-11-136-527-260502	Sequence 260502,
C 35	13.8	55.2	25	US-11-136-527-299906	Sequence 299906,
C 36	13.6	54.4	20	US-10-310-914A-915730	Sequence 915730,
C 37	13.6	54.4	21	US-10-310-914A-1053611	Sequence 1053611,
C 38	13.6	54.4	22	US-10-310-914A-1117125	Sequence 1117125,
C 39	13.6	54.4	25	US-10-310-914A-95810	Sequence 95810, A
C 40	13.6	54.4	25	US-10-310-914A-713535	Sequence 713535,
C 41	13.6	54.4	25	US-11-121-849-95350	Sequence 95350, A
C 42	13.6	54.4	25	US-11-121-849-292815	Sequence 292815,
C 43	13.6	54.4	25	US-11-121-849-442329	Sequence 442329,
C 44	13.6	54.4	25	US-11-121-849-442330	Sequence 442330,
C 45	13.6	54.4	25	US-11-121-849-613025	Sequence 613025,

ALIGNMENTS

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RESULT 1
US-10-310-914A-1296097/c
; Sequence 1296097, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvatz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes an
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1296097
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1296097

Query Match          64.0%; Score 16; DB 7; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 AAGGGGCTGGGCTT 20
        |||||
Db       23 AAGGGGCTGGGCTT 8

RESULT 2
US-10-310-914A-621697
; Sequence 621697, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvatz
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes an
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 621697
; LENGTH: 21

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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-621697

Query Match
Best Local Similarity 63.2%; Score 15.8; DB 7; Length 21;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 5 AAGGGGCTGGCCCTTAA 23
DB 1 AAGAGGCTUGGCCCUCAA 19

RESULT 3
US-10-310-914A-679212/c
; Sequence 679212, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kivuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 679212
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-679212

Query Match
Best Local Similarity 61.6%; Score 15.4; DB 7; Length 21;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TAAGGGGCTGGCCCT 20
DB 21 TAAGGGGCTGGCCACT 5

RESULT 4
US-10-310-914A-679219/c
; Sequence 679219, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kivuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 679219
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-679219

Query Match
Best Local Similarity 61.6%; Score 15.4; DB 7; Length 24;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TAAGGGGCTGGCCCT 20
DB 19 TAAGGGGCTGGCCACT 3

RESULT 5
US-10-310-914A-627249

; Sequence 627249, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kivuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 627249
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-627249

Query Match
Best Local Similarity 60.0%; Score 15; DB 7; Length 19;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 6 AAGGGGCTGGCCCT 20
DB 5 AAGGGGCTUGGCCCTU 19

RESULT 6
US-11-121-849-42167
; Sequence 42167, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 42167
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-42167

Query Match
Best Local Similarity 60.0%; Score 15; DB 8; Length 25;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 TATTAAGGGGCTGGCCCTTAA 23
DB 1 TATTAAGGGGCTGGCCCTTAA 23

RESULT 7
US-10-310-914A-760090/c
; Sequence 760090, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kivuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 760090
; LENGTH: 25
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-760090

Query Match
Best Local Similarity 59.2%; Score 14.8; DB 7; Length 25;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 AGGGGCTGGCCCTTA 23
Db 22 AGGGGCTGGCCCTCA 5

RESULT 8
US-11-121-849-615428/c
; Sequence 615428, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 615428
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-615428

Query Match
Best Local Similarity 58.4%; Score 14.6; DB 8; Length 25;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 AAGGGGCTGGCCCTTA 25
Db 25 ACGGTGCTGGCCCTTA 5

RESULT 9
US-10-310-914A-1160660
; Sequence 1160660, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1160660
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1160660

Query Match
Best Local Similarity 57.6%; Score 14.4; DB 7; Length 18;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 10 GCCTGGCCCTTA 25
Db 2 GCCUGGCCCTCAUA 17

RESULT 10

US-10-310-914A-236069/c
; Sequence 236069, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes an
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 236069
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-236069

Query Match
Best Local Similarity 57.6%; Score 14.4; DB 7; Length 20;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 GCCTGGCCCTTA 25
Db 16 GCCTGGCCCTTA 1

RESULT 11
US-10-310-914A-535246
; Sequence 535246, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes an
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 535246
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-535246

Query Match
Best Local Similarity 57.6%; Score 14.4; DB 7; Length 21;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 5 AAGGGGCTGGCCCT 20
Db 4 AAGAGGCTGGCCCT 19

RESULT 12
US-10-310-914A-535269
; Sequence 535269, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kyuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes an
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 535269
; LENGTH: 21
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TYPE: RNA
ORGANISM: Human
US-10-310-914A-535269

Query Match 57.6%; Score 14.4; DB 7; Length 21;
Best Local Similarity 81.2%; Pred. No. 8.1e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 5 AAGGGGCTGGCCCT 20
||| ||| ||| ||| |||
Db 6 AAGAGGCTGGCCCT 21

RESULT 13
US-10-310-914A-1296097
Sequence 1296097, Application US/10310914A
Publication No. US2006003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1296097
LENGTH: 23
TYPE: RNA
ORGANISM: Human
US-10-310-914A-1296097

Query Match 57.6%; Score 14.4; DB 7; Length 23;
Best Local Similarity 81.2%; Pred. No. 8.2e+02;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 6 AAGGGCTGGCCCTT 21
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Db 8 AAGGGCTGGCCCTT 23

RESULT 14
US-10-310-914A-1153244/C
Sequence 1153244, Application US/10310914A
Publication No. US2006003322A1
GENERAL INFORMATION:
APPLICANT: Bentwich, Isaac
APPLICANT: Shiller, Kiyat
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1153244
LENGTH: 26
TYPE: RNA
ORGANISM: Human
US-10-310-914A-1153244

Query Match 57.6%; Score 14.4; DB 7; Length 26;
Best Local Similarity 93.8%; Pred. No. 8.3e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 TATTAGGGCTGGC 16
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Db 21 TATTAGGGCTGGC 6

RESULT 15
US-11-101-244-1315095

Sequence 1315095, Application US/11101244
Publication No. US20050246794A1
GENERAL INFORMATION:
APPLICANT: Pharmacia, Inc.
APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin
APPLICANT: Marshall, William
TITLE OF INVENTION: Scaringe, Stephen.
FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary
SEQ ID NO 1315095
LENGTH: 19
TYPE: RNA
ORGANISM: Homo. sapiens
US-11-101-244-1315095

Query Match 56.8%; Score 14.2; DB 9; Length 19;
Best Local Similarity 63.2%; Pred. No. 1e+03;
Matches 12; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

OY 7 GGGGCTGGCCCTTATA 25
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Db 1 GGAGCTGGCCCTTATA 19

Search completed: February 7, 2006, 12:29:26
Job time : 406 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 10:50:27 : Search time 1992 Seconds
(without alignments)
713.397 Million cell updates/sec

Title: US-10-613-390b-1

Perfect score: 25

Sequence: 1 tattaaggagcctggcccttata 25

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 2525446

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: gb_env:*
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14: gb_hcg:*
15: gb_pl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	DB ID	Description
1	15.8	63.2	51	6	CQ004908 Sequence
2	15.4	61.6	50	6	CQ006075 Sequence
3	15.4	61.6	50	6	CQ006077 Sequence
4	14.4	57.6	70	6	AR012502 Sequence
5	14.4	57.6	70	6	AR020330 Sequence
6	14.4	57.6	70	6	AR109351 Sequence
7	14.4	57.6	70	6	182676 Sequence 11
8	14.4	57.6	70	6	AR368542 Sequence
9	14.4	57.6	70	6	AR391734 Sequence
10	14.4	57.6	74	5	AY266911 Gadus mor
11	14.4	57.6	74	5	AY266914 Gadus mor
12	14.4	57.6	74	5	AY266915 Gadus mor
13	14.4	57.6	74	5	AY266916 Gadus mor
14	14.4	57.6	74	5	AY266917 Gadus mor
15	14.4	57.6	74	5	AY266918 Gadus mor
16	14.4	57.6	74	5	AY266920 Gadus mor
17	14.4	57.6	74	5	AY266922 Gadus mor
18	14.4	57.6	74	5	AY266925 Gadus mor

C 19	14.4	57.6	74	5	AY266926 Gadus mor
C 20	14.4	57.6	74	5	AY266927 Gadus mor
C 21	14.4	57.6	74	5	AY266930 Gadus mor
C 22	14.4	57.6	74	5	AY266932 Gadus mor
C 23	14.4	57.6	74	5	AY266939 Gadus mor
C 24	14.4	57.6	74	5	AY266944 Gadus mor
C 25	14.4	57.6	74	5	AY266949 Gadus mor
C 26	14.4	57.6	74	5	AY266951 Gadus mor
C 27	14.4	57.6	74	5	AY266952 Gadus mor
C 28	14.4	57.6	74	5	AY266954 Gadus mor
C 29	14.4	57.6	74	5	AY266956 Gadus mor
C 30	14.4	57.6	74	5	AY266964 Gadus mor
C 31	14.4	57.6	74	5	AY266966 Gadus mor
C 32	14.4	57.6	74	5	AY266967 Gadus mor
C 33	14.4	57.6	74	5	AY266968 Gadus mor
C 34	14.4	57.6	74	5	AY266973 Gadus mor
C 35	14.4	57.6	74	5	AY266974 Gadus mor
C 36	14.4	57.6	74	5	AY266975 Gadus mor
C 37	14.4	57.6	74	5	AY266980 Gadus mor
C 38	14.2	56.8	31	6	BD002349 Gene comp
C 39	14.2	56.8	49	6	AR032793 Sequence
C 40	14.2	56.8	49	6	AR032793 Sequence
C 41	14.2	56.8	49	6	129533 Sequence 40
C 42	14.2	56.8	49	6	129533 Sequence 40
C 43	14.2	56.8	49	6	191207 Sequence 40
C 44	14.2	56.8	49	6	191207 Sequence 40
C 45	14.2	56.8	49	6	AR209457 Sequence

ALIGNMENTS

RESULT 1	CQ004908/c	CQ004908	Sequence 3548 from Patent WO0147944.	51 bp	DNA	linear	PAT 16-JAN-2004
LOCUS	CQ004908	CQ004908					
DEFINITION	CQ004908	CQ004908					
ACCESSION	CQ004908.1	GI:41011540					
VERSION							
KEYWORDS							
SOURCE							
ORGANISM							
REFERENCE							
AUTHORS							
TITLE							
JOURNAL							
FEATURES							
source							
ORIGIN							
Query Match							
Best Local Similarity							
Matches							
QY							
Db							
RESULT 2							
LOCUS							
DEFINITION							
ACCESSION							
VERSION							

KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1
AUTHORS Shinkets,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0147944-A 4715 05-JUL-2001;
Curagen Corporation (US)
FEATURES Location/Qualifiers
source 1..50
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
misc_feature 25..26
/note="Nucleotide deleted between bases 25 and 26
Accession number CG43256169"

ORIGIN
Query Match 61.6%; Score 15.4; DB 6; Length 50;
Best Local Similarity 94.1%; Pred. No. 4.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TAAAGGGCCTGGCCCT 20
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44 TAAAGGGCCTGGCCACT 28

Db 44 TAAAGGGCCTGGCCACT 28

RESULT 3
LOCUS CQ006077 50 bp DNA linear PAT 16-JAN-2004
DEFINITION Sequence 4717 from Patent WO0147944.
ACCESSION CQ006077
VERSION CQ006077.1 GI:41012709
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1
AUTHORS Shinkets,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0147944-A 4717 05-JUL-2001;
Curagen Corporation (US)
FEATURES Location/Qualifiers
source 1..50
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
misc_feature 25..26
/note="Nucleotide deleted between bases 25 and 26
Accession number CG43256169"

ORIGIN
Query Match 61.6%; Score 15.4; DB 6; Length 50;
Best Local Similarity 94.1%; Pred. No. 4.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TAAAGGGCCTGGCCCT 20
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18 TAAAGGGCCTGGCCACT 2

Db 18 TAAAGGGCCTGGCCACT 2

RESULT 4
LOCUS ARO12502 70 bp DNA linear PAT 04-DEC-1998
DEFINITION Sequence 117 from patent US 5763566.
ACCESSION ARO12502

VERSION ARO12502.1 GI:3970492
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 70)
AUTHORS Jensen,K.B., Chen,H., Morris,K.N., Stephens,A. and Gold,L.
TITLE Systematic evolution of ligands by exponential enrichment: tissue
JOURNAL Patent: US 5763566-A 117 09-JUN-1998;
SELECT Location/Qualifiers
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ORIGIN
Query Match 57.6%; Score 14.4; DB 6; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCCTGGCCCTTAATA 25
|||||
60 AATAAGCGGCGCTGAGCTTTAACA 37

Db 60 AATAAGCGGCGCTGAGCTTTAACA 37

RESULT 5
LOCUS ARO20330 70 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 117 from patent US 5789157.
ACCESSION ARO20330
VERSION ARO20330.1 GI:3974945
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 70)
AUTHORS Jensen,K.B., Chen,H., Morris,K.N., Stephens,A. and Gold,L.
TITLE Systematic evolution of ligands by exponential enrichment: tissue
JOURNAL Patent: US 5789157-A 117 04-AUG-1998;
SELECT Location/Qualifiers
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source /organism="unknown"
/mol_type="unassigned DNA"

ORIGIN
Query Match 57.6%; Score 14.4; DB 6; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCCTGGCCCTTAATA 25
|||||
60 AATAAGCGGCGCTGAGCTTTAACA 37

Db 60 AATAAGCGGCGCTGAGCTTTAACA 37

RESULT 6
LOCUS ARO109351 70 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 117 from patent US 6114120.
ACCESSION ARO109351
VERSION ARO109351.1 GI:12825627
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 70)
AUTHORS Jensen,K.B., Chen,H., Morris,K.N., Stephens,A. and Gold,L.
TITLE Systematic evolution of ligands by exponential enrichment: tissue
JOURNAL Patent: US 6114120-A 117 05-SEP-2000;
SELECT Location/Qualifiers
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source /organism="unknown"

ORIGIN /mol_type="unassigned DNA"

Query Match 57.6%; Score 14.4; DB 6; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGAGCTTTAACA 25
DB 60 AATAGCGGCTGAGCTTTAACA 37

RESULT 7
LOCUS 182676 70 bp DNA linear PAT 10-JUN-1998
DEFINITION Sequence 117 from patent US 5712375.
ACCESSION 182676
VERSION 182676.1 GI:3210973
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 70)
AUTHORS Jensen, K.B., Chen, H., Morris, K.N., Stephens, A. and Gold, L.
TITLE Systematic evolution of ligands by exponential enrichment: tissue
select

JOURNAL Patent: US 5712375-A 117 27-JAN-1998;
FEATURES Location/Qualifiers

ORIGIN 1.70
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 57.6%; Score 14.4; DB 6; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGAGCTTTAACA 25
DB 60 AATAGCGGCTGAGCTTTAACA 37

RESULT 8
LOCUS AR368542/c 70 bp DNA linear PAT 12-SEP-2003
DEFINITION Sequence 117 from patent US 6376474.
ACCESSION AR368542
VERSION AR368542.1 GI:34602693
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 70)
AUTHORS Heilig, J.S. and Gold, L.
TITLE Systematic evolution of ligands by exponential enrichment: tissue
select

JOURNAL Patent: US 6376474-A 117 23-APR-2002;
FEATURES Location/Qualifiers

ORIGIN 1.70
/organism="unknown"
/mol_type="genomic DNA"

Query Match 57.6%; Score 14.4; DB 6; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGAGCTTTAACA 25
DB 60 AATAGCGGCTGAGCTTTAACA 37

RESULT 9
LOCUS AR391734 70 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 117 from patent US 6613526.
ACCESSION AR391734
VERSION AR391734.1 GI:40115328
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 70)
AUTHORS Heilig, J.S. and Gold, L.
TITLE Systematic evolution of ligands by exponential enrichment: tissue
select

JOURNAL Patent: US 6613526-A 117 02-SEP-2003;
FEATURES Location/Qualifiers

ORIGIN 1.70
/organism="unknown"
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Query Match 57.6%; Score 14.4; DB 6; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 ATTAAGGGCGCTGAGCTTTAACA 25
DB 60 AATAGCGGCTGAGCTTTAACA 37

RESULT 10
LOCUS AY266911/c 74 bp DNA linear VRT 16-DEC-2003
DEFINITION Gadus morhua isolate TFA7.04 haplotype S02 mitochondrial
RNA-Thr-tRNA-Pro intergenic spacer, complete sequence.
ACCESSION AY266911
VERSION AY266911.1 GI:33089797
KEYWORDS
SOURCE mitochondrion Gadus morhua (Atlantic cod)

ORGANISM Gadus morhua
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.

REFERENCE 1 (bases 1 to 74)
AUTHORS Signorilaason, H. and Arnason, E.
TITLE Extent of mitochondrial DNA sequence variation in Atlantic cod from
the Faroe Islands: a resolution of gene genealogy

JOURNAL Heredity 91 (6), 557-564 (2003)
PUBMED 14560303
REFERENCE 2 (bases 1 to 74)
AUTHORS Signorilaason, H. and Arnason, E.
TITLE Direct Substitution
JOURNAL Submitted (01-APR-2003) Institute of Biology, University of
Iceland, Grensavesgur 12, Reykjavik IS-108, Iceland

FEATURES Location/Qualifiers

ORIGIN 1.74
/organism="Gadus morhua"
/organelle="mitochondrion"
/mol_type="genomic DNA"
/isolate="TFA7.04"
/isolation_source="Station A"
/db_xref="taxon:8049"
/haplotype="S02"
/country="Faroe Islands"
/note="cRNA-Thr-tRNA-Pro intergenic spacer"

Query Match 57.6%; Score 14.4; DB 5; Length 74;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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OY      2 ATTAAGGGCGCTGGCCCTTAATA 25
Db      33 ATTATGGGGCGCTCCCGGTAATA 10

RESULT 11
AY266914/c      74 bp DNA linear VRT 16-DEC-2003
LOCUS      Gadus morhua isolate TFA7.07 haplotype S06 mitochondrial
DEFINITION rRNA-Thr-tRNA-Pro intergenic spacer, complete sequence.
ACCESSION   AY266914
VERSION     AY266914.1 GI:33089800
KEYWORDS
SOURCE      mitochondrion Gadus morhua (Atlantic cod)
ORGANISM    Gadus morhua
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
            Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.
REFERENCE   1 (bases 1 to 74)
            Sigurgislaeson,H. and Arnason,E.
            Extent of mitochondrial DNA sequence variation in Atlantic cod from
            the Faroe Islands: a resolution of gene genealogy
            Heredity 91 (6), 557-564 (2003)
JOURNAL     PUBMED 14560303
REFERENCE   2 (bases 1 to 74)
            Sigurgislaeson,H. and Arnason,E.
            Direct Submission
            Submitted (01-APR-2003) Institute of Biology, University of
            Iceland, Grensassevegur 12, Reykjavik IS-108, Iceland
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            /country="Faroe Islands"
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            /note="rRNA-Thr-tRNA-Pro intergenic spacer"

ORIGIN
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Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY      2 ATTAAGGGCGCTGGCCCTTAAT 25
Db      33 ATTATGGGGCGCTCCCGGTAATA 10

RESULT 12
AY266915/c      74 bp DNA linear VRT 16-DEC-2003
LOCUS      Gadus morhua isolate TFA7.08 haplotype S06 mitochondrial
DEFINITION rRNA-Thr-tRNA-Pro intergenic spacer, complete sequence.
ACCESSION   AY266915
VERSION     AY266915.1 GI:33089801
KEYWORDS
SOURCE      mitochondrion Gadus morhua (Atlantic cod)
ORGANISM    Gadus morhua
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
            Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.
REFERENCE   1 (bases 1 to 74)
            Sigurgislaeson,H. and Arnason,E.
            Extent of mitochondrial DNA sequence variation in Atlantic cod from
            the Faroe Islands: a resolution of gene genealogy
            Heredity 91 (6), 557-564 (2003)
JOURNAL     PUBMED 14560303
REFERENCE   2 (bases 1 to 74)

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AUTHORS      Sigurgislaeson,H. and Arnason,E.
TITLE        Direct Submission
JOURNAL      Submitted (01-APR-2003) Institute of Biology, University of
            Iceland, Grensassevegur 12, Reykjavik IS-108, Iceland
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ORIGIN
Query Match      57.6%; Score 14.4; DB 5; Length 74;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY      2 ATTAAGGGCGCTGGCCCTTAATA 25
Db      33 ATTATGGGGCGCTCCCGGTAATA 10

RESULT 13
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LOCUS      Gadus morhua isolate TFA7.09 haplotype S06 mitochondrial
DEFINITION rRNA-Thr-tRNA-Pro intergenic spacer, complete sequence.
ACCESSION   AY266916
VERSION     AY266916.1 GI:33089802
KEYWORDS
SOURCE      mitochondrion Gadus morhua (Atlantic cod)
ORGANISM    Gadus morhua
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
            Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.
REFERENCE   1 (bases 1 to 74)
            Sigurgislaeson,H. and Arnason,E.
            Extent of mitochondrial DNA sequence variation in Atlantic cod from
            the Faroe Islands: a resolution of gene genealogy
            Heredity 91 (6), 557-564 (2003)
JOURNAL     PUBMED 14560303
REFERENCE   2 (bases 1 to 74)
            Sigurgislaeson,H. and Arnason,E.
            Direct Submission
            Submitted (01-APR-2003) Institute of Biology, University of
            Iceland, Grensassevegur 12, Reykjavik IS-108, Iceland
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Query Match      57.6%; Score 14.4; DB 5; Length 74;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY      2 ATTAAGGGCGCTGGCCCTTAATA 25
Db      33 ATTATGGGGCGCTCCCGGTAATA 10

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RESULT 14
AY266917/c
LOCUS
DEFINITION
Gadus morhua isolate TFA7.10 haplotype S03 mitochondrial
AY266917
cRNA-Thr-tRNA-Pro intergenic spacer, complete sequence.
ACCESSION
AY266917.1 GI:33089803
KEYWORDS
SOURCE
ORGANISM
mitochondrion Gadus morhua (Atlantic cod)
Gadus morhua
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.
REFERENCE
AUTHORS
1 (bases 1 to 74)
Sigurgislason,H. and Arnason,E.
TITLE
Extent of mitochondrial DNA sequence variation in Atlantic cod from
the Faroe Islands: a resolution of gene genealogy
JOURNAL
Heredity 91 (6), 557-564 (2003)
PUBMED
14560303
REFERENCE
2 (bases 1 to 74)
Sigurgislason,H. and Arnason,E.
AUTHORS
Direct Submission
TITLE
Submitted (01-APR-2003) Institute of Biology, University of
Iceland, Grensasvegur 12, Reykjavik IS-108, Iceland
JOURNAL
Location/Qualifiers
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/organism="Gadus morhua"
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Query Match 57.6%; Score 14.4; DB 5; Length 74;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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Db 33 ATTATGGGGCGTCTCCCGTAATA 10

RESULT 15
AY266918/c
LOCUS
DEFINITION
Gadus morhua isolate TFA7.11 haplotype S06 mitochondrial
AY266918
cRNA-Thr-tRNA-Pro intergenic spacer, complete sequence.
ACCESSION
AY266918.1 GI:33089804
KEYWORDS
SOURCE
ORGANISM
mitochondrion Gadus morhua (Atlantic cod)
Gadus morhua
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Paracanthopterygii; Gadiformes; Gadidae; Gadus.
REFERENCE
AUTHORS
1 (bases 1 to 74)
Sigurgislason,H. and Arnason,E.
TITLE
Extent of mitochondrial DNA sequence variation in Atlantic cod from
the Faroe Islands: a resolution of gene genealogy
JOURNAL
Heredity 91 (6), 557-564 (2003)
PUBMED
14560303
REFERENCE
2 (bases 1 to 74)
Sigurgislason,H. and Arnason,E.
AUTHORS
Direct Submission
TITLE
Submitted (01-APR-2003) Institute of Biology, University of
Iceland, Grensasvegur 12, Reykjavik IS-108, Iceland
JOURNAL
Location/Qualifiers
FEATURES
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source
1..74
/organism="Gadus morhua"
/organelle="mitochondrion"
/mol_type="genomic DNA"
/isolate="TFA7.11"
/isolation_source="Station A"
/db_xref="taxon:8049"
/haplotype="S06"
/country="Faroe Islands"
1..74
/note="cRNA-Thr-tRNA-Pro intergenic spacer"
ORIGIN
misc_feature
Query Match 57.6%; Score 14.4; DB 5; Length 74;
Best Local Similarity 75.0%; Pred. No. 1.6e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Qy 2 ATTAAGGGGCGCTCGCCCTTAATA 25
||||| ||| ||| |||
Db 33 ATTATGGGGCGTCTCCCGTAATA 10
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Search completed: February 8, 2006, 03:43:16
Job time: 1993 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 12:06:52 ; Search time 794 Seconds

(without alignments)
260.371 Million cell updates/sec

Title: US-10-613-390b-1

Perfect score: 25

Sequence: 1 tattaaggcgctgcgccttaata 25

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 9793542 seqs, 413468905 residues

Total number of hits satisfying chosen parameters: 11330536

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA Main:*

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- 2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq:*
- 6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	23.4	93.6	25	7	US-10-613-390b-1
3	17.4	69.6	25	9	US-10-809-189-116728
4	15.8	63.2	25	8	US-10-719-900-27015
5	15.8	63.2	25	8	US-10-719-900-27016
6	15.8	63.2	25	9	US-10-809-189-116728
7	15.8	63.2	25	10	US-11-036-317-189638
8	15.8	63.2	25	10	US-11-036-317-226389
9	15.8	63.2	25	10	US-11-036-317-273256
10	15.8	63.2	25	10	US-11-036-317-295882
11	15.8	63.2	25	10	US-11-036-317-303549
12	15.8	63.2	25	10	US-11-036-317-374272
13	15.8	63.2	25	10	US-11-036-317-739211
14	15.4	61.6	25	10	US-11-060-756-112272
15	15.2	60.8	25	7	US-10-719-956-370902
16	15.2	60.8	25	8	US-10-719-956-370902
17	14.8	59.2	25	9	US-10-809-189-86335
18	14.8	59.2	25	9	US-10-809-189-86336
19	14.8	59.2	25	10	US-11-036-317-451864
20	14.6	58.4	25	7	US-10-719-956-567778
21	14.6	58.4	25	7	US-10-719-956-567779
22	14.4	57.6	25	10	US-11-036-317-208481
23	14.4	57.6	25	10	US-11-036-317-249444

24	14.4	57.6	25	10	US-11-036-317-263488	Sequence 263488,
25	14.4	57.6	25	10	US-11-036-317-298920	Sequence 298920,
26	14.4	57.6	25	10	US-11-036-317-343406	Sequence 343406,
27	14.4	57.6	25	10	US-11-036-317-361767	Sequence 361767,
28	14.4	57.6	25	10	US-11-060-756-134392	Sequence 134392,
29	14.4	57.6	25	10	US-11-060-756-297112	Sequence 297112,
30	14.4	57.6	70	5	US-10-077-319-117	Sequence 117, App
31	14.2	56.8	25	7	US-10-719-956-305034	Sequence 305034,
32	14.2	56.8	25	8	US-10-719-900-27015	Sequence 27015, A
33	14.2	56.8	25	8	US-10-719-900-27016	Sequence 27016, A
34	14.2	56.8	25	8	US-10-719-900-255528	Sequence 255528,
35	14.2	56.8	25	8	US-10-719-900-800772	Sequence 800772,
36	14.2	56.8	25	9	US-10-809-189-26177	Sequence 26177, A
37	14.2	56.8	25	9	US-10-809-157-227800	Sequence 227800,
38	14.2	56.8	25	10	US-11-036-317-189638	Sequence 189638,
39	14.2	56.8	25	10	US-11-036-317-226389	Sequence 226389,
40	14.2	56.8	25	10	US-11-036-317-273256	Sequence 273256,
41	14.2	56.8	25	10	US-11-036-317-295882	Sequence 295882,
42	14.2	56.8	25	10	US-11-036-317-303549	Sequence 303549,
43	14.2	56.8	25	10	US-11-036-317-374272	Sequence 374272,
44	14.2	56.8	25	10	US-11-036-317-739211	Sequence 739211,
45	14.2	56.8	25	10	US-11-036-317-739212	Sequence 739212,

ALIGNMENTS

RESULT 1
US-10-613-390b-1
; Sequence 1, Application US/10613390B
; Publication No. US20040127442A1
; GENERAL INFORMATION:
; APPLICANT: Gene Cloning Inc
; TITLE OF INVENTION: Oligonucleotides for Treating Proliferative Disorders
; FILE REFERENCE: 60/400,137
; CURRENT APPLICATION NUMBER: US/10/613,390B
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: 10/613390
; PRIOR FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 25
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic primer
US-10-613-390b-1

Query Match 100.0%; Score 25; DB 7; Length 25;
Best local Similarity 100.0%; Pred. No. 0.051;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 1 TATTAAAGGCGCTGCGCCCTTAATA 25
1 TATTAAAGGCGCTGCGCCCTTAATA 25
RESULT 2
US-10-613-390b-1/c
; Sequence 1, Application US/10613390B
; Publication No. US20040127442A1
; GENERAL INFORMATION:
; APPLICANT: Gene Cloning Inc
; TITLE OF INVENTION: Oligonucleotides for Treating Proliferative Disorders
; FILE REFERENCE: 60/400,137
; CURRENT APPLICATION NUMBER: US/10/613,390B
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: 10/613390
; PRIOR FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1

LENGTH: 25
TYPE: DNA
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: synthetic primer
US-10-613-390b-1

Query Match 93.6%; Score 23.4; DB 7; Length 25;
Best Local Similarity 96.0%; Pred. No. 0.3;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TATTAAGGCGCTGGCCCTTAATA 25
DB 25 TATTAAGGCGCGAGCCCTTAATA 1

RESULT 3

US-10-809-189-116728/c
Sequence 116728, Application US/10809189
Publication No. US20050048531A1
GENERAL INFORMATION:

APPLICANT: Michael Miltmann
APPLICANT: David Mack
APPLICANT: David Lockhart
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis
FILE REFERENCE: 3101.1
CURRENT APPLICATION NUMBER: US/10/809,189
CURRENT FILING DATE: 2004-03-25
PRIOR APPLICATION NUMBER: US/09/396,196
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 60/100,678
PRIOR FILING DATE: 1998-09-17
NUMBER OF SEQ ID NOS: 127806
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 116728

LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-10-809-189-116728

Query Match 69.6%; Score 17.4; DB 9; Length 25;
Best Local Similarity 94.7%; Pred. No. 2.3e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 AGGGGCTGGCCCTTAAT 24
DB 25 AGGGGCTGGCACTTAAT 7

RESULT 4
US-10-719-900-27015/c
Sequence 27015, Application US/10719900
Publication No. US20050026164A1
GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou
APPLICANT: David Lockhart
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILE REFERENCE: 3528.1
CURRENT APPLICATION NUMBER: US/10/719,900
CURRENT FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,808
PRIOR FILING DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 27015

LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-10-719-900-27015

Query Match 63.2%; Score 15.8; DB 8; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 AGGGGCTGGCCCTTAAT 24
DB 24 AGGGGCTGGCTCTTAAT 6

RESULT 5
US-10-719-900-27016/c
Sequence 27016, Application US/10719900
Publication No. US20050026164A1
GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou
APPLICANT: David Lockhart
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
FILE REFERENCE: 3528.1
CURRENT APPLICATION NUMBER: US/10/719,900
CURRENT FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,808
PRIOR FILING DATE: 2002-11-20
NUMBER OF SEQ ID NOS: 982914
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 27016

LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-10-719-900-27016

Query Match 63.2%; Score 15.8; DB 8; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 AGGGGCTGGCCCTTAAT 24
DB 24 AGGGGCTGGCACTTAAT 6

RESULT 6
US-10-809-189-116728
Sequence 116728, Application US/10809189
Publication No. US20050048531A1
GENERAL INFORMATION:

APPLICANT: Michael Miltmann
APPLICANT: David Mack
APPLICANT: David Lockhart
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis
FILE REFERENCE: 3101.1
CURRENT APPLICATION NUMBER: US/10/809,189
CURRENT FILING DATE: 2004-03-25
PRIOR APPLICATION NUMBER: US/09/396,196
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 60/100,678
PRIOR FILING DATE: 1998-09-17
NUMBER OF SEQ ID NOS: 127806
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 116728

LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-10-809-189-116728

Query Match 63.2%; Score 15.8; DB 9; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTAAGGCGCTGGCCCTT 20
DB 7 ATTAAGGCGCGAGCCCTT 25

RESULT 7
US-11-036-317-189638
Sequence 189638, Application US/11036317
Publication No. US20050214823A1

Query Match 63.2%; Score 15.8; DB 8; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ CURRENT FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 189638
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-189638

Query Match          63.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 AGGGGCGTGGCCCTTAAT 24
DB      3 AGGAGCTG3GCCCTTCAT 21

RESULT 8
US-11-036-317-226389
/ Sequence 226389, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ CURRENT FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 226389
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-226389

Query Match          63.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 AGGGGCGTGGCCCTTAAT 24
DB      4 AGGAGCTG3GCCCTTCAT 22

RESULT 9
US-11-036-317-273256
/ Sequence 273256, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ CURRENT FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 273256
/ LENGTH: 25
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/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-273256

Query Match          63.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 AGGGGCGTGGCCCTTAAT 24
DB      7 AGGAGCTG6GCCCTTCAT 25

RESULT 10
US-11-036-317-295882
/ Sequence 295882, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ CURRENT FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 295882
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-295882

Query Match          63.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 AGGGGCGTGGCCCTTAAT 24
DB      2 AGGAGCTG6GCCCTTCAT 20

RESULT 11
US-11-036-317-303549
/ Sequence 303549, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ CURRENT FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 303549
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-303549

Query Match          63.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 AGGGGCGTGGCCCTTAAT 24
DB      5 AGGAGCTG6GCCCTTCAT 23
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RESULT 12
 US-11-036-317-374272
 ; Sequence 374272, Application US/11036317
 ; Publication No. US20050214823A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Williams, Alan
 ; APPLICANT: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIOR APPLICATION NUMBER: US 60/536,639
 ; PRIOR FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
 ; SEQ ID NO 374272
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-374272

Query Match 63.2%; Score 15.8; DB 10; Length 25;
 Best Local Similarity 89.5%; Pred. No. 1.4e+03;
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 AGGGGCTGGCCCTTAT 24
 DB 6 AGAGCCTGGCCCTTCAT 24

RESULT 13
 US-11-036-317-739211/c
 ; Sequence 739211, Application US/11036317
 ; Publication No. US20050214823A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Williams, Alan
 ; APPLICANT: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIOR APPLICATION NUMBER: US 60/536,639
 ; PRIOR FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
 ; SEQ ID NO 739211
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-739211

Query Match 63.2%; Score 15.8; DB 10; Length 25;
 Best Local Similarity 89.5%; Pred. No. 1.4e+03;
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 TTAGGGGCTGGCCCTTA 22
 DB 19 TTAGGGGCTGGCCACTTA 1

RESULT 14
 US-11-060-756-172272/c
 ; Sequence 172272, Application US/11060756
 ; Publication No. US20050221354A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wyeth
 ; APPLICANT: Mounts, William Martin
 ; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
 ; FILE REFERENCE: AM101083 (031896-042000)
 ; CURRENT APPLICATION NUMBER: US/11/060,756
 ; CURRENT FILING DATE: 2005-02-18
 ; NUMBER OF SEQ ID NOS: 303284

; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 172272
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: probe
 US-11-060-756-172272

Query Match 61.6%; Score 15.4; DB 10; Length 25;
 Best Local Similarity 94.1%; Pred. No. 2.1e+03;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 AGGGGCTGGCCCTTA 22
 DB 25 AGGGGCTGGCCCATTA 9

RESULT 15
 US-10-719-956-370902
 ; Sequence 370902, Application US/10719956
 ; Publication No. US20040146910A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xue Mei Zhou
 ; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
 ; FILE REFERENCE: 3527.1
 ; CURRENT APPLICATION NUMBER: US/10/719,956
 ; CURRENT FILING DATE: 2003-11-20
 ; PRIOR APPLICATION NUMBER: 60/427,836
 ; PRIOR FILING DATE: 2002-11-20
 ; NUMBER OF SEQ ID NOS: 699466
 ; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
 ; SEQ ID NO 370902
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Rattus norvegicus
 US-10-719-956-370902

Query Match 60.8%; Score 15.2; DB 7; Length 25;
 Best Local Similarity 85.0%; Pred. No. 2.7e+03;
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 TTAGGGGCTGGCCCTTA 22
 DB 4 TTAGGGGCTGGCCCTTA 23

Search completed: February 7, 2006, 12:22:29
 Job time : 795 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 11:01:48 ; Search time 3599 Seconds
(without alignments)

325.001 Million cell updates/sec

Title: US-10-613-390b-1

Sequence: 1 tattaaggagcctggcccttata 25

Scoring table: IDENTITY_NUC
Gapop 10.0 ; Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 778150

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: gb_esc1:*
2: gb_esc2:*
3: gb_esc3:*
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7: gb_esc7:*
8: gb_esc8:*
9: gb_esc9:*
10: gb_esc10:*
11: gb_esc11:*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	16	64.0	83	5	BU812825
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3	15.4	61.6	40	9	AZ371110
4	15.4	61.6	40	9	AZ371110
5	15.4	61.6	83	9	AZ440331
6	15.2	60.8	98	1	AM770417
7	15	60.0	64	1	AI149654
8	15	60.0	70	10	CG527767
9	15	60.0	73	1	AM251001
10	15	60.0	86	10	CG524805
11	15	60.0	94	7	CK428180
12	14.6	58.4	53	10	CR169973
13	14.6	58.4	61	11	CR169973
14	14.6	58.4	64	10	CG650062
15	14.6	58.4	64	10	CG650062
16	14.4	57.6	42	10	CG650062
17	14.4	57.6	83	5	BU812825
18	14.4	57.6	84	5	CP102969
19	14.4	57.6	91	6	CF641086
20	14.2	56.8	46	9	CL529021
21	14.2	56.8	57	9	AZ651810
22	14.2	56.8	66	10	CG482226

C 23	14.2	56.8	78	1	AM250424	AM250424 2822310.3
C 24	14.2	56.8	84	10	CZ44284	CZ44284 AE0876 Sa
C 25	14.2	56.8	89	6	CB930280	CB930280 r193a05.Y
C 26	14.2	56.8	89	6	CB930280	CB930280 r193a05.Y
C 27	14.2	56.8	28	1	AA870545	AA870545 vq23a04.E
C 28	14	56.0	55	11	GA6350127	AJ532133 Gallus ga
C 29	13.8	55.2	46	1	AI582875	AI582875 Galus ga
C 30	13.8	55.2	58	10	AJ587174	AJ587174 Arabidops
C 31	13.8	55.2	70	9	AZ484117	AZ484117 Arabidops
C 32	13.8	55.2	71	10	CM083263	CM083263 104.425.1
C 33	13.8	55.2	78	10	CG538865	CG538865 OST129261
C 34	13.8	55.2	78	10	CG680849	CG680849 89K06.40
C 35	13.8	55.2	79	1	AI686688	AI686688 tns510.X
C 36	13.8	55.2	83	9	AZ440331	AZ440331 IM0231A20
C 37	13.8	55.2	85	11	CR102161	CR102161 Reverse s
C 38	13.8	55.2	96	3	BJ076360	BJ076360 BJ076360
C 39	13.8	55.2	96	11	CR131012	CR131012 Reverse s
C 40	13.8	55.2	97	6	CD979428	CD979428 QNG3D11.Y
C 41	13.6	54.4	100	10	CG553173	CG553173 OST165393
C 42	13.6	54.4	50	9	AZ423820	AZ423820 IM0203P22
C 43	13.6	54.4	67	10	CG525840	CG525840 OST101409
C 44	13.6	54.4	71	1	AA452589	AA452589 zx39f02.B
C 45	13.6	54.4	76	10	CG573029	CG573029 OST204293

ALIGNMENTS

RESULT 1
LOCUS BU812825 83 bp mRNA linear EST 15-OCT-2002
DEFINITION NO01H03 Populus bark cDNA library Populus tremula x Populus tremuloides cDNA 5 prime, mRNA sequence.

ACCESSION BU812825.1 GI:22968143
VERSION BU812825.1
KEYWORDS EST.
SOURCE Populus tremula x Populus tremuloides
ORGANISM Populus tremula x Populus tremuloides

REFERENCE Umeberg, P., Bhalero, R.R., Jansson, S. and Sterky, P.
1 (bases 1 to 83)

AUTHORS The poplar tree transcriptome: Analysis of expressed sequence tags from multiple libraries

JOURNAL Unpublished (2002)

COMMENT Contact: BHALERAO RUPALI R.
Umea Plant Science Center
Department of Plant Physiology
University of Umea, 901 87 Umea, Sweden
Tel: +46 90 786 5279
Fax: +46 90 786 6676
Email: rupali.bhalerao@plantphys.umu.se

FEATURES

source

1..83
/organism="Populus tremula x Populus tremuloides"
/mol_type="mRNA"
/db_xref="taxon:47664"
/tissue_type="bark"
/clone_lib="Populus bark cDNA library"

ORIGIN

Query Match 64.0% Score 16; DB 5; Length 83;
Best Local Similarity 79.2% Pred. No. 1.3e+04;
Matches 19; Conservative 0; Mismatches 5; Indels 0;

QY 2 ATTAAGGAGCCTGCGCCCTTATA 25
|||||
Db 33 ATTAAGGAGCCTGCTTACTATA 56
|||||

RESULT 2
AM250424

LOCUS AM250424 78 bp mRNA linear EST 07-JAN-2000
 DEFINITION 2822310.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822310 3',
 mRNA sequence.
 ACCESSION AM250424
 VERSION AM250424.1 GI:6593417
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.
 1 (bases 1 to 78)
 REFERENCE NIH-MGC <http://mgc.nci.nih.gov/>.
 AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
 TITLE Unpublished (1999)
 JOURNAL Other ESTs: 2822310.5prime
 COMMENT Contact: Robert Straubeberg, Ph. D.
 Email: cgaabs-remail.nih.gov
 Tissue Procurement: DCTD/DTF cDNA Library Preparation: Ling
 Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
 Consortium (LINL) DNA Sequencing by: Berkeley MGC sequencing
 Project Clone distribution: MGC clone distribution information can
 be found through the I.M.A.G.E. Consortium/LINL at:
www.bio.livl.gov/bbrp/image/image.html Base Calling / Quality
 Scores: PHRED from University of Washington Genome Center. Vector
 Trimming: cross match from University of Washington Genome Center
 PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
 Drosophila Genome Project. University of Washington Genome Center:
<http://www.genome.washington.edu> Low Quality Sequence: 22
 contiguous PHRED high quality bases following vector sequence. Very
 low Quality Sequence: Trace file contained 78 contiguous distinct
 peaks following vector sequence. Polyadenylation: Based upon the
 presence of a XhoI site followed by a run of 14 or more T residues
 at the beginning of the sequence, this cDNA insert was
 polyadenylated.
 Plate: LLCM9 row: B column: 7
 High quality sequence stop: 22.
 Location/Qualifiers
 1..78
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:2822310"
 /tissue_type="small cell carcinoma"
 /cell_line="MGC3"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH MGC 7"
 /note="Organ: Lung; Vector: POTB7; Site 1: XhoI; Site 2:
 EcoRI; cDNA made by oligo-dT priming. Directionally
 cloned into EcoRI/XhoI sites using the following 5'
 adaptor: GGCACGAG(G). Size-selected >500bp for average
 insert size 1.8kb. Library constructed by Ling Hong in
 the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN
 Query Match 63.2%; Score 15.8; DB 1; Length 78;
 Best Local Similarity 89.5%; Pred. No. 1.6e+04;
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 5 AAGGGCCTGGCCCTTAA 23
 |||||
 DB 15 AAGGGCCTGGCTCTTAA 33
 |||||

RESULT 3
 AZ371110 40 bp DNA linear GSS 02-OCT-2000
 LOCUS 1M0122105F Mouse 10kb plasmid UGCGIM library Mus musculus genomic
 DEFINITION clone UGCGIM0122105 F, genomic survey sequence.
 ACCESSION AZ371110
 VERSION AZ371110.1 GI:10484810

KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muridea; Muridae; Murinae; Mus.
 1 (bases 1 to 40)
 REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
 Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
 Niederhausen,A. and Wright,D., Weiss,R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 JOURNAL Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0122 row: I column: 05
 Seq primer: CCTGTGAAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 40.
 Location/Qualifiers
 1..40
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UGCGIM0122105"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, Ti-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UGCGIM library"
 /note="Vector: PMD42ny; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (<http://www.jax.org/resources/documents/dnares/>). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pMD42 (gi|4732114|gb|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

ORIGIN
 Query Match 61.6%; Score 15.4; DB 9; Length 40;
 Best Local Similarity 76.0%; Pred. No. 2.3e+04;
 Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 QY 1 TATTAGGGGCGCTGGCCCTTAATA 25
 |||||
 DB 13 TATTATGGGTATGGGCCCATTAATA 37
 |||||

RESULT 4
 AZ371110/c 40 bp DNA linear GSS 02-OCT-2000
 LOCUS 1M0122105F Mouse 10kb plasmid UGCGIM library Mus musculus genomic
 DEFINITION clone UGCGIM0122105 F, genomic survey sequence.
 ACCESSION AZ371110

ACCESSION	AZ440331
VERSION	AZ440331.1
KEYWORDS	GI:10564344
SOURCE	GSS.
ORGANISM	Mus musculus (house mouse)
REFERENCE	Mus musculus
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus.
TITLE	1 (bases 1 to 83)
JOURNAL	Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausen, A. and Wright, D. Weis, R.
COMMENT	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts Unpublished (2000) Contact: Robert B. Weis University of Utah Genome Center University of Utah Km. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLc, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0231 row: A column: 20 Seq primer: CGTTGTAAACGACGCGCAGT Class: plasmid ends High quality sequence stop: 83. Location/Qualifiers
FEATURES	1
	83

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1.03
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCGCM0231A20"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lid="Mouse 10kb plasmid UUCGCM library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (g14732114[gb|AF129072.1], a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. Coli XL10-Gold (Stratagene) cells

```

								and selected for amplification resistance.						
ORIGIN														
Query Match							61.6%;		Score 15.4;		DB 9;		Length 83;	
Best Local Similarity							94.1%;		Pred. No. 2.4e+04;					
Matches 16; Conservative							0;		Mismatches 1;		Indels		Gaps 0.	
Oy	8 GGCGCTGGCCCTTAAT 24 													
Db	68 GGCGCTTGCCCCTTAAT 52 													
RESULT 6														
AM770417/c									98 bp		mRNA		linear	
LOCUS													EST 04-MAY-2000	
DEFINITION hb1a1a2.x1 NCI_CGAP_Kid13 Homo sapiens CDNA clone IMAGE:3007582.3'														

RNA sequence.

ACCESSION AM770417
 VERSION AW770417.1 GI:7702459
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 98)
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP).
 Tumor Gene Index
 Unpublished (1997)
 CONTACT: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Chris Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The I.M.A.G.E. Consortium DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL, send email to: info@image.llnl.gov
 Seq primer: -40UP from Gibco
 High quality sequence stop: 73.
 Location/Qualifiers
 1..98
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:3007582"
 /tissue_type="2 pooled Wilms' tumors, one primary and one metastatic to brain"
 /lab_host="DH10B"
 /clone_lib="NCI CGAP Kid13"
 /note="Organ: Kidney; Vector: pCMV-SPORT6; Site 1: Salt; Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt. library constructed by Life Technologies."

ORIGIN

Query Match 60.8%; Score 15.2; DB 1; Length 98;
 Best Local Similarity 85.0%; Pred. No. 3.1e+04;
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 6 AGGGGCGTGGCCCTTATA 25
 |||||
 Db 95 AGGGGCGTGGCCCGACACA 76

RESULT 7
 A1149654 64 bp mRNA linear EST 10-NOV-1998
 LOCUS 3f37c02.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1752194
 DEFINITION 3', similar to gb:M61866 ZINC FINGER PROTEIN 85 (HUMAN);, mRNA sequence.
 ACCESSION A1149654
 VERSION A1149654.1 GI:3678123
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 64)
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP).
 Tumor Gene Index
 Unpublished (1997)
 CONTACT: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.

cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbrp/image/image.html
 Insert Length: 1082 Std Error: 0.00
 Seq primer: -40m3 fwd. Et from Amersham
 High quality sequence stop: 1.
 Location/Qualifiers
 1..64
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:1752194"
 /sex="male"
 /lab_host="DH10B"
 /clone_lib="Soares testis NHT"
 /note="Vector: pT73-Pac (pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech laboratories, Inc., and primed with a Not I - oligo (dt) primer [5'
 TGTTACGATCGAAGTGAGCGCGCCCAATTTTTTTTTTTT 3']
 Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo."

ORIGIN

Query Match 60.0%; Score 15; DB 1; Length 64;
 Best Local Similarity 78.3%; Pred. No. 3.7e+04;
 Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 TATTAGGGGCTGGCCCTTAA 23
 |||||
 Db 12 TATTAGGGGCTGGCGCTTAA 34

RESULT 8
 CG527767/c 70 bp mRNA linear GSS 01-OCT-2003
 LOCUS OST106096 Mus musculus 1295v/ev Mus musculus cDNA clone OST106096,
 DEFINITION mRNA sequence.
 ACCESSION CG527767
 VERSION CG527767.1 GI:37314339
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 70)
 Zambrowicz, B.P., Abhin, A., Ramirez-Solis, R., Richter, L.J., Piggett, J., Beltrandel Rio, H., Buxton, E.C., Edwards, J., Finch, R.A., Fiddie, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B.W., Jr., Kipp, P., Konhauf, B., Ma, Z.-Q., Matkovich, D., Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z., Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Zhu, Q., Person, C. and Sands, A.T.
 Mnk1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
 14610273
 CONTACT: Zambrowicz BP
 Omibank
 Lexicon Genetics Incorporated
 4000 Research Forest Drive, The Woodlands, TX 77381, USA
 Email: materials@lexgen.com
 Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature, 1998 Apr 9;392(6676):608-11)
 Class: Gene Trap.
 Location/Qualifiers


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source
1..70
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST106096"
/cell_type="embryonic stem cell"
/clone_1ib="Mus musculus 129Sv/Ev"

ORIGIN
Query Match 60.0%; Score 15; DB 10; Length 70;
Best Local Similarity 78.3%; Pred. No. 3.7e+04;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 ATTAGGGGCTGGCCCTTAAT 24
|||||
53 ATCATGGGCTGGCTCGAAT 31

RESULT 9
AW251001/c 73 bp mRNA linear EST 07-JAN-2000
LOCUS 2821159.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2821159 3',
DEFINITION mRNA sequence.
ACCESSION AW251001
VERSION AW251001.1 GI:6593947
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 73)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Other ESTs: 2821159.5prime
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: DCTD/DRP cDNA Library Preparation: Ling
Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
Consortium (LINL) DNA Sequencing by: Berkeley MGC sequencing
project Clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LINL at:
www.bio.lnrl.gov/btrp/image/image.html Base Calling / Quality
Scores: PHRED from University of Washington Genome Center. Vector
Trimming: cross_match from University of Washington Genome Center
PHRAP suite. Poly-T Identification: patmatch.pl from Berkeley
Drosophila Genome Project. University of Washington Genome Center:
http://www.genome.washington.edu Low Quality Sequence: 10
contiguous PHRED high quality bases following vector sequence. Very
low Quality Sequence: Trace file contained 73 contiguous distinct
peaks following vector sequence. Polyadenylation: Based upon the
presence of a XhoI site followed by a run of 14 or more T residues
at the beginning of the sequence, this cDNA insert was
polyadenylated.
Place: L1C66 row: B column: 8
High quality sequence stop: 10.
Location/Qualifiers
1..73
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2821159"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="PH10B (phage-resistant)"
/clone_1ib="NIH_MGC_7"
/notes="Organ: lung; Vector: pOT7; Site 1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in

```

```

source
1..86
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST99167"
/cell_type="embryonic stem cell"
/clone_1ib="Mus musculus 129Sv/Ev"

ORIGIN
Query Match 60.0%; Score 15; DB 10; Length 86;
Best Local Similarity 78.3%; Pred. No. 3.8e+04;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 TATTAGGGGCTGGCCCTTAAT 23
|||||
84 TATTCAGGGCTTGGCCCTTGA 62

RESULT 11
CK428180 94 bp mRNA linear EST 06-JAN-2004
LOCUS CK428180/c
DEFINITION Taji1907.y1 Gastric Epithelial Progenitor 2 Mus musculus cDNA 5',
mRNA sequence.
ACCESSION CK428180

the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```

VERSION CK428180.1 GI:40672576
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Muridae; Murinae; Mus.
REFERENCE
AUTHORS Tidwell, R., Clifton, S., Maria, M., Hillier, L., Pape, D., Martin, J., Wylie, T., Theising, B., Bowers, Y., Gibbons, M., Ritzer, E., Bannet, J., Ronko, I., Tsagarishevili, R., Belaygorod, L., Grow, A., Maguire, L., Waterston, R. and Wilson, R.
TITLE Washu Stem Cell EST Project
JOURNAL Unpublished (2002)
COMMENT Contact: Jeff Gordon and Mike Lovett
Washington University School of Medicine
1st strand of cDNA was synthesized with reverse transcriptase and oligo(dT) beads, then cDNA was amplified by PCR using modified SMART primers. The final cDNA was cloned in pAMP1 vector in annealing reaction with Uracil DNA Glycosylase (UDG). Library constructed by Y. Korshunova and M. Lovett. Library materials provided by Mills JC & Gordon JI.
Putative full length read
vector to vector length is
Seq primer: -40RP from Gibco.
Location/Qualifiers
1. .94
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
/tissue_type="Laser-captured isthmal cells from toxi76 transgenic mice"
/dev_stage="adult"
/lab_host="DH5alpha"
/note="Vector: pAMP1; 1st strand of cDNA was synthesized with reverse transcriptase and oligo(dT) beads, then cDNA was amplified by PCR using modified SMART primers. The final cDNA was cloned in pAMP1 vector in annealing reaction with Uracil DNA Glycosylase (UDG). Library constructed by Y. Korshunova and M. Lovett. Library materials provided by Mills JC & Gordon JI."
ORIGIN
Query Match 60.0%; Score 15; DB 7; Length 94;
Best Local Similarity 78.3%; Pred. No. 3.8e+04;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 TATTAGGGCGCTGGCCCTTA 23
Db 43 TATTCTTGGGGCTGGCCCTTA 21
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CL880134 53 bp DNA linear GSS 30-AUG-2004
LOCUS abf42c10.y1 Soybean random, unfiltered genomic library glycine max
DEFINITION CL880134
ACCESSION CL880134
VERSION CL880134.1 GI:51614669
KEYWORDS GSS.
SOURCE Glycine max (soybean)
ORGANISM Glycine max
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine
1 (bases 1 to 53)
Nunberg, A., Bedell, J. A., Citek, R. W., Robbins, D., McNamey, J., Peterson, S., Jones, J., Fries, J., Budiman, M. A., Nguyen, H. and Stacey, G.
TITLE Methylation filtered genomic sequences from Glycine max

JOURNAL Unpublished (2004)
COMMENT Contact: Gary Stacey
University of Missouri
108 Waters Hall, Columbia, MO 65211, USA
Tel: 573-884-1267
Fax: 573-882-0588
Email: stacey@missouri.edu
Lidid: 230
Class: shotgun.
Location/Qualifiers
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/tissue_type="Young leaves"
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ORIGIN
Query Match 58.4%; Score 14.6; DB 10; Length 53;
Best Local Similarity 81.0%; Pred. No. 5.6e+04;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 TATTAGGGCGCTGGCCCTT 21
Db 38 TTTAAGGTGTGGCCCTT 18
RESULT 13
CRI69973 61 bp DNA linear GSS 06-JUN-2004
LOCUS CRI69973
DEFINITION Forward strand read from insert in 5'HPRT insertion targeting and chromosome engineering clone MHPN50C03, genomic survey sequence.
ACCESSION CRI69973
VERSION CRI69973.1 GI:49948822
KEYWORDS GSS; genome survey sequence; MICR.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Muridae; Murinae; Mus.
REFERENCE
AUTHORS Adams, D. J., Biggs, P. J., Cox, A. V., Davies, R. M., van der Weyden, L., Jonkers, J., Smith, J., Plumb, R. W., Taylor, R. G., Nishijima, I., Yu, Y., Rogers, J. and Bradley, A.
TITLE Direct Submission
JOURNAL Submitted (20-FEB-2004) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. <http://www.sanger.ac.uk/MICR>
Location/Qualifiers
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Best Local Similarity 81.0%; Pred. No. 5.7e+04;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 2 ATTAGGCGCTGGCCCTTA 22
Db 16 ATTAGGCGCTGGCCCTTA 36
RESULT 14
CG650062 64 bp mRNA linear GSS 02-OCT-2003
LOCUS CG650062

DEFINITION	OS7406254 Mus musculus 129Sv/Ev Mus musculus cDNA clone OS7406254.
ACCESSION	M8NA sequence.
VERSION	CG650062
KEYWORDS	CG650062.1 GI:37473911
SOURCE	GSS.
ORGANISM	Mus musculus (house mouse)
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidae; Muridae; Murinae; Mus.
AUTHORS	1 (bases 1 to 64) Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J., Piggott,C.J., BeltrandelRio,H., Buxton,E.C., Edwards,J., Finch,R.A., Fiddie,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C., Key,B.W., Jr., Kipp,P., Konhauff,B., Ma,Z.-Q., Markeisch,D., Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z., Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N., Zhu,Q., Person,C. and Sands,A.T.
TITLE	Mnk1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003) 14610273
JOURNAL	Contact: Zambrowicz BP
PUBMED	OmiBank
COMMENT	Lexicon Genetics Incorporated 4000 Research Forest Drive, The Woodlands, TX 77381, USA Email: materials@lexgen.com Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature, 1998 Apr 9;392(6676):608-11) Class: Gene Trap.
FEATURES	Location/Qualifiers
SOURCE	1..64 /organism="Mus musculus" /mol_type="mRNA" /strain="129Sv/Ev" /db_xref="taxon:10090" /clone="OS7406254" /cell_type="embryonic stem cell" -/clone_id="Mus musculus 129Sv/Ev"
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Best local similarity	70.8%; Pred. No. 5.7e+04;
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Db	28 TTTTNGGGGACGCCCAAT 51
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DEFINITION	OS7406254 Mus musculus 129Sv/Ev Mus musculus cDNA clone OS7406254.
ACCESSION	CG650062
VERSION	CG650062.1 GI:37473911
KEYWORDS	GSS.
SOURCE	Mus musculus (house mouse)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidae; Muridae; Murinae; Mus.
REFERENCE	1 (bases 1 to 64) Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J., Piggott,C.J., BeltrandelRio,H., Buxton,E.C., Edwards,J., Finch,R.A., Fiddie,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C., Key,B.W., Jr., Kipp,P., Konhauff,B., Ma,Z.-Q., Markeisch,D., Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z., Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N., Zhu,Q., Person,C. and Sands,A.T.
AUTHORS	Mnk1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention

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JOURNAL      Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
PUBMED      14610273
COMMENT      Contact: Zambrowicz BP
              OmniBank
              Lexicon Genetics Incorporated
              4000 Research Forest Drive, The Woodlands, TX 77381, USA
              Email: materials@lexgen.com
              Gene trap sequence tag generated by 3' RACE from mouse ES cells as
              described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
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ORIGIN
Query Match      58.4%; Score 14.6; DB 10; Length 64;
Best Local Similarity 70.8%; Pred. No. 5.7e+04;
Matches 17; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
2 ATTAGGGGCGCTGGCCCTTAATA 25
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Db 51 ATTGAGGGCGCCGTCGCCNAAAAA 28

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Search completed: February 7, 2006, 12:06:36
Job time : 3603 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 11:27:28 ; Search time 163 Seconds
(without alignments)
287.171 Million cell updates/sec

Title: US-10-613-390B-1

Perfect score: 25
Sequence: 1 tattaaggagcctggcccttaata 25

Scoring table:
IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3449518 seqs, 936177250 residues.

Total number of hits satisfying chosen parameters: 5005474

Minimum DB seq length: 0

Maximum DB seq length: 100

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Maximum Match 100%
Listing first 45 summaries

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10: /cgn2_6/ptodata/2/pna/US11_NEW_COMB_seq.1.*
11: /cgn2_6/ptodata/2/pna/US11_NEW_COMB_seq.2.*
12: /cgn2_6/ptodata/2/pna/US60_NEW_COMB_seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	15.6	62.4	60	US-11-130-645B-528520	Sequence 528520,
2	15.6	62.4	63	US-11-130-645B-150318	Sequence 150318,
3	15.6	62.4	64	US-11-130-645B-119663	Sequence 119663,
4	15.6	62.4	64	US-11-130-645B-139002	Sequence 139002,
5	15.6	62.4	64	US-11-130-645B-178751	Sequence 178751,
6	15.6	62.4	64	US-11-130-645B-236152	Sequence 236152,
7	15.6	62.4	64	US-11-130-645B-307585	Sequence 307585,
8	15.6	62.4	64	US-11-130-645B-333006	Sequence 333006,
9	15.6	62.4	64	US-11-130-645B-627039	Sequence 627039,
10	15.6	62.4	64	US-11-130-645B-688578	Sequence 688578,
11	15.6	62.4	64	US-11-130-645B-115601	Sequence 115601,
12	15.6	62.4	64	US-11-130-645B-235099	Sequence 235099,
13	15.6	62.4	64	US-11-130-645B-378454	Sequence 378454,
14	15.6	62.4	64	US-11-130-645B-378526	Sequence 378526,
15	15.6	62.4	64	US-11-130-645B-427234	Sequence 427234,
16	15.6	62.4	64	US-11-130-645B-459220	Sequence 459220,
17	15.6	62.4	64	US-11-130-645B-467734	Sequence 467734,
18	15.6	62.4	64	US-11-130-645B-569003	Sequence 569003,
19	15.6	62.4	64	US-11-130-645B-561328	Sequence 561328,
20	15.6	62.4	64	US-11-130-645B-165370	Sequence 165370,
21	15.6	62.4	64	US-11-130-645B-113088	Sequence 113088,

22	14.8	59.2	64	US-11-130-645B-217720	Sequence 217720,
23	14.8	59.2	64	US-11-130-645B-542527	Sequence 542527,
24	14.8	59.2	64	US-11-130-645B-604429	Sequence 604429,
25	14.8	59.2	64	US-11-130-645B-604559	Sequence 604559,
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27	14.6	58.4	64	US-11-130-645B-413655	Sequence 413655,
28	14.6	58.4	64	US-11-130-645B-483536	Sequence 483536,
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33	14.6	58.4	64	US-11-130-645B-662069	Sequence 662069,
34	14.6	58.4	64	US-11-130-645B-662743	Sequence 662743,
35	14.6	58.4	64	US-11-130-645B-717754	Sequence 717754,
36	14.6	58.4	64	US-11-130-645B-738097	Sequence 738097,
37	14.4	57.6	62	US-11-130-645B-112090	Sequence 112090,
38	14.4	57.6	64	US-11-130-645B-113739	Sequence 113739,
39	14.4	57.6	64	US-11-130-645B-113739	Sequence 113739,
40	14.4	57.6	64	US-11-130-645B-155510	Sequence 155510,
41	14.4	57.6	64	US-11-130-645B-155510	Sequence 155510,
42	14.4	57.6	64	US-11-130-645B-179891	Sequence 179891,
43	14.4	57.6	64	US-11-130-645B-227807	Sequence 227807,
44	14.4	57.6	64	US-11-130-645B-367745	Sequence 367745,
45	14.4	57.6	64	US-11-130-645B-528942	Sequence 528942,

ALIGNMENTS

RESULT 1
US-11-130-645B-528520
; Sequence 528520, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRONAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 528520
; LENGTH: 60
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-528520

Query Match
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Matches 12; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

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Db 10 UAUUAGGACCGUCACCUA 31
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; Sequence 150318, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRONAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 150318
; LENGTH: 63
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-150318
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62.4%; Score 15.6; DB 11; Length 63;

Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
QY 3 TTAAGGGGCGCTGACCCCTTAAT 24
DB 24 UUAAGGGGCGCTGACCCCTCAUCAU 45

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US-11-130-645B-119663
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; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRORNAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 119663
; LENGTH: 64
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-119663

Query Match 62.4%; Score 15.6; DB 11; Length 64;
Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 3 TTAAGGGGCGCTGACCCCTTAAT 24
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US-11-130-645B-139002
; Sequence 139002, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRORNAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 139002
; LENGTH: 64
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-139002

Query Match 62.4%; Score 15.6; DB 11; Length 64;
Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 3 TTAAGGGGCGCTGACCCCTTAAT 24
DB 25 UUAAGGGGCGCTGACCCCTCAUCAU 46

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US-11-130-645B-178751
; Sequence 178751, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRORNAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 178751
; LENGTH: 64

; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-178751

Query Match 62.4%; Score 15.6; DB 11; Length 64;
Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 3 TTAAGGGGCGCTGACCCCTTAAT 24
DB 22 UUAAGGGGCGCTGACCCCTCAUCAU 43

RESULT 6
US-11-130-645B-236152
; Sequence 236152, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRORNAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 236152
; LENGTH: 64
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-236152

Query Match 62.4%; Score 15.6; DB 11; Length 64;
Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 3 TTAAGGGGCGCTGACCCCTTAAT 24
DB 25 UUAAGGGGCGCTGACCCCTCAUCAU 46

RESULT 7
US-11-130-645B-307585
; Sequence 307585, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRORNAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
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; SEQ ID NO 307585
; LENGTH: 64
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-307585

Query Match 62.4%; Score 15.6; DB 11; Length 64;
Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 3 TTAAGGGGCGCTGACCCCTTAAT 24
DB 22 UUAAGGGGCGCTGACCCCTCAUCAU 43

RESULT 8
US-11-130-645B-333006
; Sequence 333006, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRORNAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B

/ CURRENT FILING DATE: 2005-05-16
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/ SEQ ID NO: 333006
/ LENGTH: 64
/ TYPE: RNA
/ ORGANISM: hsa
US-11-130-645B-333006

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Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

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DB 25 UUAAGGGGCTGCGCCCTCAUCAU 46

RESULT 9
US-11-130-645B-627039

/ GENERAL INFORMATION:
/ APPLICANT: ROSETTA GENOMICS LTD
/ TITLE OF INVENTION: MICRORNAS AND USES THEREOF
/ FILE REFERENCE: 06087.0202.CPUS13
/ CURRENT APPLICATION NUMBER: US/11/130,645B
/ CURRENT FILING DATE: 2005-05-16
/ NUMBER OF SEQ ID NOS: 760616
/ SOFTWARE: PatentIn version 3.3
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/ LENGTH: 64
/ TYPE: RNA
/ ORGANISM: hsa
US-11-130-645B-627039

Query Match 62.4%; Score 15.6; DB 11; Length 64;
Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

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DB 22 UUAAGGGGCTGCGCCCTCAUCAU 43

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US-11-130-645B-688578
/ GENERAL INFORMATION:
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/ TITLE OF INVENTION: MICRORNAS AND USES THEREOF
/ FILE REFERENCE: 06087.0202.CPUS13
/ CURRENT APPLICATION NUMBER: US/11/130,645B
/ CURRENT FILING DATE: 2005-05-16
/ NUMBER OF SEQ ID NOS: 760616
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO: 688578
/ LENGTH: 64
/ TYPE: RNA
/ ORGANISM: hsa
US-11-130-645B-688578

Query Match 62.4%; Score 15.6; DB 11; Length 64;
Best Local Similarity 59.1%; Pred. No. 3.1e+02;
Matches 13; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 3 TTAAGGGGCTGCGCCCTTAAT 24
DB 25 UUAAGGGGCTGCGCCCTCAUCAU 46

RESULT 11
US-11-130-645B-115601/c
/ Sequence 115601, Application US/11130645B

/ GENERAL INFORMATION:
/ APPLICANT: ROSETTA GENOMICS LTD
/ TITLE OF INVENTION: MICRORNAS AND USES THEREOF
/ FILE REFERENCE: 06087.0202.CPUS13
/ CURRENT APPLICATION NUMBER: US/11/130,645B
/ CURRENT FILING DATE: 2005-05-16
/ NUMBER OF SEQ ID NOS: 760616
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO: 115601
/ LENGTH: 64
/ TYPE: RNA
/ ORGANISM: hsa
US-11-130-645B-115601

Query Match 61.6%; Score 15.4; DB 11; Length 64;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 AAGGGGCTGCGCCCTT 21
DB 19 AAGGGGCTGCGCCCTT 3

RESULT 12
US-11-130-645B-235099/c
/ GENERAL INFORMATION:
/ APPLICANT: ROSETTA GENOMICS LTD
/ TITLE OF INVENTION: MICRORNAS AND USES THEREOF
/ FILE REFERENCE: 06087.0202.CPUS13
/ CURRENT APPLICATION NUMBER: US/11/130,645B
/ CURRENT FILING DATE: 2005-05-16
/ NUMBER OF SEQ ID NOS: 760616
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO: 235099
/ LENGTH: 64
/ TYPE: RNA
/ ORGANISM: hsa
US-11-130-645B-235099

Query Match 61.6%; Score 15.4; DB 11; Length 64;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 AAGGGGCTGCGCCCTT 21
DB 19 AAGGGGCTGCGCCCTT 3

RESULT 13
US-11-130-645B-378454/c
/ GENERAL INFORMATION:
/ APPLICANT: ROSETTA GENOMICS LTD
/ TITLE OF INVENTION: MICRORNAS AND USES THEREOF
/ FILE REFERENCE: 06087.0202.CPUS13
/ CURRENT APPLICATION NUMBER: US/11/130,645B
/ CURRENT FILING DATE: 2005-05-16
/ NUMBER OF SEQ ID NOS: 760616
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO: 378454
/ LENGTH: 64
/ TYPE: RNA
/ ORGANISM: hsa
US-11-130-645B-378454

Query Match 61.6%; Score 15.4; DB 11; Length 64;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 AAGGGGCTGCGCCCTT 21
DB 22 AAGGGGCTGCGCCCTT 6

RESULT 14
US-11-130-645B-378526/c
; Sequence 378526, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRONAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 378526
; LENGTH: 64
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-378526

Query Match 61.6%; Score 15.4; DB 11; Length 64;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 AAGGGGCTGGCCCTT 21
|||
Db 22 AAGGGGCTGGCCCTT 6

RESULT 15
US-11-130-645B-427234/c
; Sequence 427234, Application US/11130645B
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: MICRONAS AND USES THEREOF
; FILE REFERENCE: 06087.0202.CPUS13
; CURRENT APPLICATION NUMBER: US/11/130,645B
; CURRENT FILING DATE: 2005-05-16
; NUMBER OF SEQ ID NOS: 760616
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 427234
; LENGTH: 64
; TYPE: RNA
; ORGANISM: hsa
US-11-130-645B-427234

Query Match 61.6%; Score 15.4; DB 11; Length 64;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 AAGGGGCTGGCCCTT 21
|||
Db 22 AAGGGGCTGGCCCTT 6

Search completed: February 7, 2006, 12:30:41
Job time : 164 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 11:18:34 (Search time 3629 Seconds
(without alignments)
380.901 Million cell updates/sec

Title: US-10-613-390B-1
Perfect score: 25
Sequence: 1 tattaaagggcctggcccttaata 25

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 79147668 seqs, 27645789525 residues

Total number of hits satisfying chosen parameters: 91431180

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Pending Patents NA Main:

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6: /cgn2_6/prodata/1/pna/US0177 COMB.seq.*
7: /cgn2_6/prodata/1/pna/US0177 COMB.seq.*
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26: /cgn2_6/prodata/1/pna/US0177 COMB.seq.*
27: /cgn2_6/prodata/1/pna/US0177 COMB.seq.*
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Result No.	Score	Query Match	Length	ID	Description
1	25	100.0	25	1 PCT-US03-20696-7	Sequence 7, Appli
2	25	100.0	25	1 PCT-US03-20696-7	Sequence 7, Appli
3	23.4	93.6	25	1 PCT-US03-20696-7	Sequence 7, Appli
4	23.4	93.6	25	1 PCT-US03-20696-7	Sequence 7, Appli
5	17.4	69.6	25	62 US-10-613-390B-1	Sequence 1, Appli
6	17.2	68.8	25	68 US-09-956-584A-36654	Sequence 36654, A
7	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
8	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
9	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
10	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
11	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
12	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
13	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
14	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
15	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
16	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
17	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
18	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
19	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
20	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
21	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
22	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
23	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
24	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
25	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
26	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
27	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
28	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
29	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
30	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
31	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
32	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
33	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
34	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
35	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
36	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
37	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
38	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
39	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
40	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
41	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
42	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A
43	17.2	68.8	25	38 US-09-956-604A-22327	Sequence 22327, A


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24 16 64.0 87 22 US-09-263-191-1256 Sequence 1256, Ap
25 16 64.0 87 38 US-09-975-254-1256 Sequence 1256, Ap
26 15.8 63.2 21 49 US-10-310-914A-621697 Sequence 621697, A
c 27 15.8 63.2 21 53 US-10-604-926-35057 Sequence 35057, A
c 28 15.8 63.2 21 53 US-10-605-923-550465 Sequence 550465, A
29 15.8 63.2 21 53 US-10-605-924-621697 Sequence 621697, A
30 15.8 63.2 21 53 US-10-605-923-987120 Sequence 987120, A
31 15.8 63.2 23 53 US-10-605-923-1481673 Sequence 1481673, A
32 15.8 63.2 23 55 US-10-707-975B-361066 Sequence 361066, A
33 15.8 63.2 25 49 US-10-355-577-621452 Sequence 621452, A
c 34 15.8 63.2 25 60 US-10-719-900-27015 Sequence 27015, A
35 15.8 63.2 25 60 US-10-719-900-27016 Sequence 27016, A
36 15.8 63.2 25 62 US-10-809-189-116728 Sequence 116728, A
37 15.8 63.2 25 66 US-11-036-317-189638 Sequence 189638, A
38 15.8 63.2 25 66 US-11-036-317-226389 Sequence 226389, A
39 15.8 63.2 25 66 US-11-036-317-273256 Sequence 273256, A
40 15.8 63.2 25 66 US-11-036-317-295882 Sequence 295882, A
41 15.8 63.2 25 66 US-11-036-317-303549 Sequence 303549, A
42 15.8 63.2 25 66 US-11-036-317-374272 Sequence 374272, A
c 43 15.8 63.2 25 66 US-11-036-317-739211 Sequence 739211, A
c 44 15.8 63.2 25 78 US-60-353-987-621452 Sequence 621452, A
c 45 15.8 63.2 25 79 US-60-427-808-27015 Sequence 27015, A

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ALIGNMENTS

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RESULT 1
PCT-US03-20696-7
; Sequence 7, Application PC/TUS0320696
; GENERAL INFORMATION:
; APPLICANT: Gene Cloning, Inc.
; APPLICANT: Zhifang Zhu
; APPLICANT: Yuliang Cui
; APPLICANT: Qingqing Ding
; APPLICANT: Li Li
; APPLICANT: Zhi Wang
; TITLE OF INVENTION: Oligonucleotides for Treating
; FILE REFERENCE: 13552PCT
; CURRENT APPLICATION NUMBER: PCT/US03/20696
; PRIOR FILING DATE: 2003-06-30
; PRIOR APPLICATION NUMBER: 60/400,137
; PRIOR FILING DATE: 2002-08-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; NAME/KEY: misc_signal
; LOCATION: (0)...(0)
; OTHER INFORMATION: found in any organism
; FEATURE:
; OTHER INFORMATION: found in any organism
PCT-US03-20696-7

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Query Match 100.0%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TATTAAAGGGGCGCTGGCCCTTAATA 25
DB 1 TATTAAAGGGGCGCTGGCCCTTAATA 25

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RESULT 2
US-10-613-390B-1
; Sequence 1, Application US/10613390B
; GENERAL INFORMATION:
; APPLICANT: Gene Cloning Inc
; TITLE OF INVENTION: Oligonucleotides for Treating Proliferative Disorders

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; FILE REFERENCE: 60/400,137
; CURRENT APPLICATION NUMBER: US/10/613,390B
; CURRENT FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: 10/613390
; PRIOR FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 25
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic primer
US-10-613-390B-1
Query Match 100.0%; Score 25; DB 53; Length 25;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TATTAAAGGGGCGCTGGCCCTTAATA 25
DB 1 TATTAAAGGGGCGCTGGCCCTTAATA 25

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RESULT 3
PCT-US03-20696-7/c
; Sequence 7, Application PC/TUS0320696
; GENERAL INFORMATION:
; APPLICANT: Gene Cloning, Inc.
; APPLICANT: Zhifang Zhu
; APPLICANT: Yuliang Cui
; APPLICANT: Qingqing Ding
; APPLICANT: Li Li
; APPLICANT: Zhi Wang
; TITLE OF INVENTION: Oligonucleotides for Treating
; FILE REFERENCE: 13552PCT
; CURRENT APPLICATION NUMBER: PCT/US03/20696
; PRIOR FILING DATE: 2003-06-30
; PRIOR APPLICATION NUMBER: 60/400,137
; PRIOR FILING DATE: 2002-08-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; NAME/KEY: misc_signal
; LOCATION: (0)...(0)
; OTHER INFORMATION: found in any organism
; FEATURE:
; OTHER INFORMATION: found in any organism
PCT-US03-20696-7

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Query Match 93.6%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TATTAAAGGGGCGCTGGCCCTTAATA 25
DB 25 TATTAAAGGGGCGAGGCCCTTAATA 1

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RESULT 4
US-10-613-390B-1/c
; Sequence 1, Application US/10613390B
; GENERAL INFORMATION:
; APPLICANT: Gene Cloning Inc
; TITLE OF INVENTION: Oligonucleotides for Treating Proliferative Disorders
; FILE REFERENCE: 60/400,137
; CURRENT APPLICATION NUMBER: US/10/613,390B
; CURRENT FILING DATE: 2003-07-03

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PRIOR APPLICATION NUMBER: 10/613390
PRIOR FILING DATE: 2003-07-03
NUMBER OF SEQ ID NOS: 1
SOFTWARE: Patent version 3.2
SEQ ID NO 1
LENGTH: 25
TYPE: DNA
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: synthetic primer
US-10-613-390B-1

Query Match 93.6%; Score 23.4; DB 53; Length 25;
Best Local Similarity 96.0%; Pred. No. 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 TATTAAAGGGGCTGGCCCTTAATA 25
DB 25 TATTAAAGGGGCTGGCCCTTAATA 1

RESULT 5
US-10-809-189-116728/c
Sequence 116728, Application US/10809189
GENERAL INFORMATION:
APPLICANT: Michael Miltmann
APPLICANT: David Lockhart
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis
FILE REFERENCE: 3101.1
CURRENT APPLICATION NUMBER: US/10/809,189
PRIOR FILING DATE: 2004-03-25
PRIOR APPLICATION NUMBER: US/09/396,196
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 60/100,678
PRIOR FILING DATE: 1998-09-17
NUMBER OF SEQ ID NOS: 127806
SOFTWARE: PasteSeq for Windows Version 4.0
SEQ ID NO 116728
LENGTH: 25
TYPE: DNA
ORGANISM: mus musculus
US-10-809-189-116728

Query Match 69.6%; Score 17.4; DB 62; Length 25;
Best Local Similarity 94.7%; Pred. No. 9.5e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 6 AGGGGCTGGCCCTTAAT 24
DB 25 AGGGGCTGGCCCTTAAT 7

RESULT 6
US-09-956-584A-36654/c
Sequence 36654, Application US/09956584A
GENERAL INFORMATION:
APPLICANT: Miltmann, Michael
TITLE OF INVENTION: Genetic Analysis of Mouse
FILE REFERENCE: 3115.1
CURRENT APPLICATION NUMBER: US/09/956,584A
PRIOR FILING DATE: 2001-09-19
PRIOR APPLICATION NUMBER: 60/234,017
PRIOR FILING DATE: 2000-09-20
NUMBER OF SEQ ID NOS: 605887
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 36654
LENGTH: 25
TYPE: DNA
ORGANISM: Mus musculus
US-09-956-584A-36654

Query Match 68.8%; Score 17.2; DB 38; Length 25;
Best Local Similarity 86.4%; Pred. No. 1.2e+04;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 3 TTAAGGGGCTGGCCCTTAAT 24
DB 23 TTAAGGGGCTGGCCCTTAAT 2

RESULT 7
US-09-956-604-22327/c
Sequence 22327, Application US/09956604
GENERAL INFORMATION:
APPLICANT: Miltmann, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Escherichia coli
FILE REFERENCE: 3117.1
CURRENT APPLICATION NUMBER: US/09/956,604
PRIOR FILING DATE: 2001-09-19
PRIOR APPLICATION NUMBER: 60/234,049
PRIOR FILING DATE: 2000-09-19
NUMBER OF SEQ ID NOS: 141629
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 22327
LENGTH: 25
TYPE: DNA
ORGANISM: Escherichia coli
US-09-956-604-22327

Query Match 68.8%; Score 17.2; DB 38; Length 25;
Best Local Similarity 86.4%; Pred. No. 1.2e+04;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 TATTAAAGGGGCTGGCCCTTA 22
DB 24 TATTAAAGGGGCTGGCCCTTA 3

RESULT 8
US-09-956-604A-22327/c
Sequence 22327, Application US/09956604A
GENERAL INFORMATION:
APPLICANT: Miltmann, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Escherichia coli
FILE REFERENCE: 3117.1
CURRENT APPLICATION NUMBER: US/09/956,604A
PRIOR FILING DATE: 2001-09-19
PRIOR APPLICATION NUMBER: 60/234,049
PRIOR FILING DATE: 2000-09-19
NUMBER OF SEQ ID NOS: 141629
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 22327
LENGTH: 25
TYPE: DNA
ORGANISM: Escherichia coli
US-09-956-604A-22327

Query Match 68.8%; Score 17.2; DB 38; Length 25;
Best Local Similarity 86.4%; Pred. No. 1.2e+04;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 TATTAAAGGGGCTGGCCCTTA 22
DB 24 TATTAAAGGGGCTGGCCCTTA 3

RESULT 9
US-09-956-604B-22327/c
Sequence 22327, Application US/09956604B
GENERAL INFORMATION:
APPLICANT: Miltmann, Michael
TITLE OF INVENTION: Methods of Genetic Analysis of Escherichia coli
FILE REFERENCE: 3117.1
CURRENT APPLICATION NUMBER: US/09/956,604B

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? CURRENT FILING DATE: 2001-09-19
? PRIOR APPLICATION NUMBER: 60/2234,049
? PRIOR FILING DATE: 2000-09-19
? NUMBER OF SEQ ID NOS: 141629
? SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1.1
? SEQ ID NO 22327
? LENGTH: 25
? TYPE: DNA
? ORGANISM: Escherichia coli
?
? US-09-956-604B-22327

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Query Match	68.8%	Score 17.2;	DB 38;	Length 25;
Best Local Similarity	86.4%	Pred. No. 1.2e+04;		
Matches 19; Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0;

QY 1 TATTAAGGGCGCTGGCCCTTA 22
||| ||| ||| ||| |||
Db 24 TATTAACGGGCTTGCTCCCTTA 3

RESULT 10
US-60-234--049-56273/c

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1 Sequence 56273, Application US/60234049
2 GENERAL INFORMATION:
3 APPLICANT: Mitmann, Michael
4 APPLICANT: Affymetrix, Inc.
5 TITLE OF INVENTION: Methods of Genetic Analysis of
6 TITLE OF INVENTION: Escherichia coli
7 FILE REFERENCE: 3117
8 CURRENT APPLICATION NUMBER: US/60/234,049
9 CURRENT FILING DATE: 2000-09-19
10 NUMBER OF SEQ ID NOS: 141629
11 SOFTWARE: FastSeq for Windows Version 4.0
12 SEQ ID NO 56273
13 LENGTH: 25
14 TYPE: DNA
15 ORGANISM: Escherichia coli
16 PUBLICATION INFORMATION:
17 DATABASE ACCESSION NUMBER: GenBank U00096
18 US-60-234-049-56273

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Query Match	68.8%	Score 17.2;	DB 77;	Length 25;
Best Local Similarity	86.4%	Pred. No. 1.2e+04;		
Matches 19; Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0

Qy 1 TATTAGGGCCTGCCCCCTTA 22
||| ||| ||| ||| |||
Db 24 TATTACGGGCTTGTCCTTA 3

RESULT 11
US-09-498-485A-1998

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? APPLICANT: Rosen, et. al.
? TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 46
?
? FILE REFERENCE: P046
?
? CURRENT APPLICATION NUMBER: US/09/498,485A
?
? CURRENT FILING DATE: 2000-02-04
?
? PRIOR APPLICATION NUMBER: 60/118,775
?
? PRIOR FILING DATE: 1999-02-05
?
? NUMBER OF SEQ ID NOS: 8166
?
? SEQ ID NO 1998
?
? LENGTH: 99
?
? TYPE: DNA
?
? ORGANISM: Homo sapiens
?
? FEATURE:
?
? NAME/KEY: misc_feature
?
? LOCATION: (39)
?
? OTHER INFORMATION: n equals a,t,g, or c
?
? NAME/KEY: misc_feature
?
? LOCATION: (61)
?
? OTHER INFORMATION: n equals a,t,g, or c
?

```

```

: NAME/KEY: misc_feature
: LOCATION: (66)
: OTHER INFORMATION: n equals a,t,g, or c
: NAME/KEY: misc_feature
: LOCATION: (73)
: OTHER INFORMATION: n equals a,t,g, or c
: NAME/KEY: misc_feature
: LOCATION: (98)
: OTHER INFORMATION: n equals a,t,g, or c
US-09-498-485A-1998

```

Query Match	68.0%;	Score 17;	DB 24;	Length 99;
Best Local Similarity	80.0%;	Pred. No. 1.6e+04;		
Matches 20; Conservative	0;	Mismatches 5;	Indels 0;	Gaps 0;

```

Oy      1 TATTAGGGGCGCTGGCCCCCTTATA 25
         | ||||| ||||| ||| |
Db      9 TGTTAAGGGGCGCTGGCGTCTGA 33

```

RESULT 12
US-09-912-293-44099

```

Sequence 44099, Application US/09912293
GENERAL INFORMATION:
APPLICANT: Rosen, et. al.
TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 100
FILE REFERENCE: PO-100
CURRENT APPLICATION NUMBER: US/09/912,293
CURRENT FILING DATE: 2001-07-26
PRIORITY APPLICATION NUMBER: 08/103,744
PRIORITY FILING DATE: 1993-08-09
PRIORITY APPLICATION NUMBER: 09/249,651
PRIORITY FILING DATE: 1999-02-12
PRIORITY APPLICATION NUMBER: 08/104,507
PRIORITY FILING DATE: 1993-08-09
PRIORITY APPLICATION NUMBER: 08/196,363
PRIORITY FILING DATE: 1994-02-15
PRIORITY APPLICATION NUMBER: 09/859,490
PRIORITY FILING DATE: 2001-05-18
PRIORITY APPLICATION NUMBER: 08/196,362
PRIORITY FILING DATE: 1994-02-15
PRIORITY APPLICATION NUMBER: 08/221,623
PRIORITY FILING DATE: 1994-03-31
PRIORITY APPLICATION NUMBER: 08/220,691
PRIORITY FILING DATE: 1994-03-31
PRIORITY APPLICATION NUMBER: 09/741,830
PRIORITY FILING DATE: 2000-12-22
PRIORITY APPLICATION NUMBER: 09/913,155
PRIORITY FILING DATE: 2001-03-21
Remaining Prior Application data removed - See File Wrapper or PAM.
SEQUENCE ID NO 44099
SEQ ID NO 24458

```

```
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (39)..(39)
OTHER INFORMATION: n is equal to a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (61)..(61)
OTHER INFORMATION: n is equal to a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (66)..(66)
OTHER INFORMATION: n is equal to a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
LOCATION: (73)..(73)
OTHER INFORMATION: n is equal to a,t,g, or c
FEATURE:
NAME/KEY: misc_feature
```

LOCATION: (98)..(98)
OTHER INFORMATION: n is equal to a,t,g, or c
US-09-912-293-44099

Query Match 68.0%; Score 17; DB 35; Length 99;
Best Local Similarity 80.0%; Pred. No. 1.6e+04;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

1 TATTAGGGGCGCCCTTAATA 25
9 TATTAGGGGCGCCCTTAATA 33

RESULT 13

US-09-498-485A-4160
Sequence 4160, Application US/09498485A
GENERAL INFORMATION:
APPLICANT: Rosen, et. al.
TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 46
FILE REFERENCE: PO46
CURRENT APPLICATION NUMBER: US/09/498,485A
CURRENT FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: 60/118,775
PRIOR FILING DATE: 1999-02-05
NUMBER OF SEQ ID NOS: 8166
SEQ ID NO 4160

LENGTH: 99
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (19)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (25)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (26)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (27)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (29)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (71)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (82)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (92)
OTHER INFORMATION: n equals a,t,g, or c
US-09-498-485A-4160

Query Match 65.6%; Score 16.4; DB 24; Length 99;
Best Local Similarity 94.4%; Pred. No. 2.8e+04;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 TATTAGGGGCGCCCTTAATA 18
43 TATTAGGGGCGCCCTTAATA 60

RESULT 14

US-09-498-485A-4160/c
Sequence 4160, Application US/09498485A
GENERAL INFORMATION:
APPLICANT: Rosen, et. al.

TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 46
FILE REFERENCE: PO46
CURRENT APPLICATION NUMBER: US/09/498,485A
CURRENT FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: 60/118,775
PRIOR FILING DATE: 1999-02-05
NUMBER OF SEQ ID NOS: 8166
SEQ ID NO 4160

LENGTH: 99
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (8)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (19)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (25)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (26)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (27)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (29)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (71)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (82)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (92)
OTHER INFORMATION: n equals a,t,g, or c
US-09-498-485A-4160

Query Match 65.6%; Score 16.4; DB 24; Length 99;
Best Local Similarity 94.4%; Pred. No. 2.8e+04;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

8 GGGCGGCGCCCTTAATA 25
60 GGGCGGCGCCCTTAATA 43

RESULT 15

US-09-912-293-117317
Sequence 117317, Application US/09912293
GENERAL INFORMATION:
APPLICANT: Rosen, et. al.
TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 100
FILE REFERENCE: PO-100
CURRENT APPLICATION NUMBER: US/09/912,293
CURRENT FILING DATE: 2001-07-26
PRIOR APPLICATION NUMBER: 08/103,744
PRIOR FILING DATE: 1993-08-09
PRIOR APPLICATION NUMBER: 09/249,651
PRIOR FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: 08/104,507
PRIOR FILING DATE: 1993-08-09
PRIOR APPLICATION NUMBER: 08/196,363
PRIOR FILING DATE: 1994-02-15
PRIOR APPLICATION NUMBER: 09/859,490
PRIOR FILING DATE: 2001-05-18
PRIOR APPLICATION NUMBER: 08/196,362
PRIOR FILING DATE: 1994-02-15
PRIOR APPLICATION NUMBER: 08/221,623
PRIOR FILING DATE: 1994-03-31

```

; PRIOR APPLICATION NUMBER: 08/220,691
; PRIOR FILING DATE: 1994-03-31
; PRIOR APPLICATION NUMBER: 09/741,830
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 09/813,155
; PRIOR FILING DATE: 2001-03-21
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 244538
; SEQ ID NO 117317
; LENGTH: 99
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8)..(8)
; OTHER INFORMATION: n is equal to a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19)..(19)
; OTHER INFORMATION: n is equal to a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (25)..(27)
; OTHER INFORMATION: n is equal to a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (29)..(29)
; OTHER INFORMATION: n is equal to a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (71)..(71)
; OTHER INFORMATION: n is equal to a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (82)..(82)
; OTHER INFORMATION: n is equal to a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (92)..(92)
; OTHER INFORMATION: n is equal to a,t,g, or c
; US-09-912-293-117317

Query Match      65.6%; Score 16.4; DB 35; Length 99;
Best Local Similarity 94.4%; Pred.No. 2.8e+04;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TATTAGGGGCTGGGCC 18
      |||||
Db      43 TATTAGGGGCTGGGCC 60

```

Search completed: February 7, 2006, 12:27:52
 Job time : 3631 secs

CC oligonucleotide that includes a TATA signal and GC signal sequence. Oligo
CC #2 is used in a claimed method of modulating transcription in a cell. The
CC invention provides compositions and methods for treating a proliferative
CC disorder, in particular lung cancer, melanoma or leukaemia (claimed).
CC comprising administering a proliferation-inhibiting amount of a single-
CC stranded oligonucleotide that is capable of binding to one or more DNA-
CC binding proteins or RNA primers. In an example from the invention, mice
CC were administered p388 leukemia cancer cells by i.p. injection and then
CC received i.v. injections of oligo #2 and/or oligo #4 (a 7-mer random
CC oligo DNA). Results showed that oligo #2 at a dosage of 1 mg/kg/day i.v.
CC with oligo #4 at 1 mg/kg/day i.v. attained perfect results, up to 36 days
CC after cancer cell injection, with a 100% survival rate. The 7-mer alone
CC attained a 60% survival rate. The results showed that oligo #2 could
CC interfere with RNA transcription.

SO Sequence 25 BP; 6 A; 6 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 100.0%; Score 25; DB 12; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.01; Mismatches 0; Gaps 0;
Matches 25; Conservative 0; Indels 0;

OY 1 TATTAGGGGCGCCCTTATA 25
1 TATTAGGGGCGCCCTTATA 25
Db 1 TATTAGGGGCGCCCTTATA 25

RESULT 2
ADK67857/c
ID ADK67857 standard; DNA; 25 BP.

XX ADK67857;

XX 06-MAY-2004 (first entry)

XX Transcription activator-binding oligonucleotide (oligo #2).

XX Cytostatic; lung cancer; melanoma; leukaemia; gene therapy; ss.

XX Synthetic.

XX Key Location/Qualifiers

XX TATA_signal 1..6

XX GC_signal 7..12

XX WO2004012654-A2.

XX 12-FEB-2004.

XX 30-JUN-2003; 2003WO-US020696.

XX 01-AUG-2002; 2002US-0400137P.

XX (GENE-) GENE CLONING INC.

XX Zhu Z, Cui Y, Ding Q, Li L, Wang Z;

XX WPI; 2004-156997/15.

PT Treating a proliferative disorder in a subject comprises administering a
PT proliferation-inhibiting amount of a single-stranded oligonucleotide
PT capable of binding to one or more DNA-binding proteins or RNA primers in
PT the subject.

XX Example 21; SEQ ID NO 7; 36pp; English.

XX The present sequence is that of oligo #2, a 25-mer single-stranded
XX oligonucleotide that includes a TATA signal and GC signal sequence. Oligo
XX #2 is used in a claimed method of modulating transcription in a cell. The
XX invention provides compositions and methods for treating a proliferative
XX disorder, in particular lung cancer, melanoma or leukaemia (claimed),
XX comprising administering a proliferation-inhibiting amount of a single-

CC stranded oligonucleotide that is capable of binding to one or more DNA-
CC binding proteins or RNA primers. In an example from the invention, mice
CC were administered p388 leukemia cancer cells by i.p. injection and then
CC received i.v. injections of oligo #2 and/or oligo #4 (a 7-mer random
CC oligo DNA). Results showed that oligo #2 at a dosage of 1 mg/kg/day i.v.
CC with oligo #4 at 1 mg/kg/day i.v. attained perfect results, up to 36 days
CC after cancer cell injection, with a 100% survival rate. The 7-mer alone
CC attained a 60% survival rate. The results showed that oligo #2 could
CC interfere with RNA transcription.

SO Sequence 25 BP; 6 A; 6 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 93.6%; Score 23.4; DB 12; Length 25;
Best Local Similarity 96.0%; Pred. No. 0.065; Mismatches 1; Gaps 0;
Matches 24; Conservative 0; Indels 1;

OY 1 TATTAGGGGCGCCCTTATA 25
25 TATTAGGGGCGCCCTTATA 1
Db 25 TATTAGGGGCGCCCTTATA 1

RESULT 3
AAL30340/c
ID AAL30340 standard; DNA; 51 BP.

XX AAL30340;

XX 24-JAN-2002 (first entry)

XX Human SNP oligonucleotide #3548.

XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
XX neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
XX amyloid protein; angiotensin; apoptosis related protein; cadherin;
XX cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
XX complement related protein; cytochrome; kinase; cytokine; interferon;
XX interleukin; G-protein coupled receptor; thioesterase; inflammation;
XX multifactorial disease; autoimmune disease; infection;
XX nervous system disease; ss.

XX Homo sapiens.

XX WO200147944-A2.

XX 05-JUL-2001.

XX 28-DEC-2000; 2000WO-US035498.

XX 28-DEC-1999; 99US-0173419P.

XX 27-DEC-2000; 2000US-00173419.

XX (CURA-) CURAGEN CORP.

XX Shinkets RA, Leach M;

XX WPI; 2001-465210/50.

PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.

XX Claim 1; Page 2404; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytochromes, kinases, cytokines, interferons, interleukins, G-
XX protein coupled receptors and thioesterases. The present sequence is of
XX such oligonucleotide. The oligonucleotides and the peptides encoded by
XX them may be used in the prevention, diagnosis and treatment of diseases
XX associated with inappropriate expression of the proteins listed above.
XX Disorders that may be prevented, diagnosed and/or treated include

CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms
XX
SQ Sequence 51 BP; 14 A; 16 C; 18 G; 3 T; 0 U; 0 Other;
Query Match 63.2%; Score 15.8; DB 4; Length 51;
Best Local Similarity 89.5%; Pred. No. 5.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TATTAAGGGGCGCTGGCCCC 19
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
Db 31 TTTTAGGGGGCTGGCCCC 13
RESULT 4
AAL31509/c
ID AAL31509 standard; DNA; 50 BP.
XX
AC AAL31509;
XX
DT 24-JAN-2002 (first entry)
XX
DE Human SNP oligonucleotide #4717.
XX
KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinase; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX
OS Homo sapiens.
XX
PN WO200147944-A2.
XX
PD 05-JUL-2001.
XX
PF 28-DEC-2000; 2000WO-US035498.
XX
PR 28-DEC-1999; 99US-0173419P.
XX
PR 27-DEC-2000; 2000US-00173419.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX
DR WPI; 2001-465210/50.
XX
PT Polymorphic nucleic acids encoding e.g. amyases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.
XX
PS Claim 1; Page 2743; 4143pp; English.
XX
CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amyases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinases, cytokines, interferons, interleukins, G-
CC protein coupled receptors and thioesterases. The present sequence is one
CC such oligonucleotide. The oligonucleotides and the peptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of the proteins listed above.
CC Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer

CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms
XX
SQ Sequence 50 BP; 8 A; 17 C; 19 G; 6 T; 0 U; 0 Other;
Query Match 61.6%; Score 15.4; DB 4; Length 50;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 4 TAAAGGGGCGCTGGCCCCCT 20
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
Db 18 TAAAGGGGCGCTGGCCACT 2
RESULT 5
AAL31507/c
ID AAL31507 standard; DNA; 50 BP.
XX
AC AAL31507;
XX
DT 24-JAN-2002 (first entry)
XX
DE Human SNP oligonucleotide #4715.
XX
KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinase; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX
OS Homo sapiens.
XX
PN WO200147944-A2.
XX
PD 05-JUL-2001.
XX
PF 28-DEC-2000; 2000WO-US035498.
XX
PR 28-DEC-1999; 99US-0173419P.
XX
PR 27-DEC-2000; 2000US-00173419.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX
DR WPI; 2001-465210/50.
XX
PT Polymorphic nucleic acids encoding e.g. amyases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.
XX
PS Claim 1; Page 2743; 4143pp; English.
XX
CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amyases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinases, cytokines, interferons, interleukins, G-
CC protein coupled receptors and thioesterases. The present sequence is one
CC such oligonucleotide. The oligonucleotides and the peptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of the proteins listed above.
CC Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms

XX SQ Sequence 50 BP; 8 A; 14 C; 22 G; 6 T; 0 U; 0 Other;
Query Match 61.6%; Score 15.4; DB 4; Length 50;
Best Local Similarity 94.1%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 4 TAAAGGGGCTGGCCCT 20
DB 44 TAAAGGGGCTGGCCACT 28
RESULT 6
ACL62385
ID ACL62385 standard; cDNA; 90 BP.
XX
AC ACL62385;
XX
DT 24-MAR-2005 (first entry)
XX
DE Human colon cancer differentially expressed polynucleotide, SEQ ID:8520.
XX
KW Differential expression; diagnosis; therapy; drug screening; cancer;
KM neoplasm; colon tumor; breast tumor; pancreas tumor; cytostatic; vaccine;
KW ss.
XX
OS Homo sapiens.
XX
PN WO200500087-A2.
XX
PD 06-JAN-2005.
XX
PF 13-MAY-2004; 2004WO-US015421.
XX
PR 03-JUN-2003; 2003US-0475872P.
XX
PA (CHIR) CHIRON CORP.
XX
PI Randazzo F, Moler E, Escobedo J, Garcia PD;
XX
DR WPI; 2005-075421/08.
XX
PT New isolated polynucleotides, which are differentially expressed in colon
PT cancer cell, useful for treating cancer, e.g. colon cancer, breast
PT cancer, or pancreatic cancer.
XX
PS Claim 1; SEQ ID NO 8520; 97pp; English.
XX
CC The invention relates to 9672 polynucleotides (ACL5386-ACL63537) which
CC are differentially expressed in colon cancer cells. The invention also
CC relates to vectors and host cells comprising a differentially expressed
CC polynucleotide of the invention; a method for detecting a cancerous cell
CC by detection of a gene product of the polynucleotides; a method for
CC inhibiting a cancerous phenotype of a cell by inhibiting a gene product
CC of the polynucleotides; a method of treating an individual with cancer by
CC administration of a modulator of a gene product of the polynucleotides;
CC and an isolated antibody that specifically binds to a polypeptide encoded
CC by one of the 9672 polynucleotides. The polynucleotides, polypeptides,
CC antibodies, and methods are useful for the detection of cancerous cells;
CC for the diagnosis, prognosis and management of cancer; for the
CC identification of agents that modulate the phenotype of cancerous cells;
CC for the identification of therapeutic targets for cancer chemotherapy;
CC and for the treatment of cancer, especially colon cancer and metastasized
CC colon cancer, but also breast or pancreatic cancer. The polynucleotides
CC are also useful as a source of probes or primers for use in diagnostic
CC methods. The differentially expressed polynucleotides or their encoded
CC proteins can additionally be used as vaccines to modulate primary immune
CC responses for the prevention or treatment of cancer. The present sequence
CC represents a specifically claimed polynucleotide which is differentially
CC expressed in colon cancer. Note: The sequence data for this patent did
CC not form part of the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 90 BP; 21 A; 32 C; 22 G; 15 T; 0 U; 0 Other;
Query Match 60.0%; Score 15; DB 14; Length 90;
Best Local Similarity 78.3%; Pred. No. 1.5e+03;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 3 TTAAGGGGCTGGCCCTTAATA 25
DB 35 TTAAGGGGCTGGCCCTTAACA 57
RESULT 7
AAT71443/c
ID AAT71443 standard; DNA; 70 BP.
XX
AC AAT71443;
XX
DT 01-AUG-1997 (first entry)
XX
DE Glioblastoma U251 cell line ligand GBI.86.
XX
KW Ligand; glioblastoma; brain; tumour; SELLEX; in vivo; imaging;
KM systematic evolution of ligands by exponential enrichment; cancer;
KM drug delivery; cell line; ss.
XX
OS Synthetic.
XX
PN WO9634875-A1.
XX
PD 07-NOV-1996.
XX
PF 01-MAY-1996; 96WO-US006060.
XX
PR 03-MAY-1995; 95US-00433585.
XX
PR 03-MAY-1995; 95US-00434001.
XX
PR 03-MAY-1995; 95US-00434425.
XX
PR 03-MAY-1995; 95US-00437667.
XX
PA (NEXS-) NEXSTAR PHARM INC.
XX
PI (UYRE-) UNIV RES CORP.
XX
PI Jensen KB, Chen H, Morris KN, Stephens A, Gold L;
XX
DR WPI; 1996-506092/50.
XX
PT Identifying nucleic acid ligands for tissues - by contacting candidate
PT mixt. of nucleic acids with tissue and enriching for increased affinity
PT nucleic acids.
XX
PS Claim 22; Page 70; 110pp; English.
XX
CC The present sequence is a single stranded DNA ligand to the human brain
CC tumor derived, glioblastoma U251 cell line, prepared by systematic
CC evolution of ligands by exponential enrichment (SELLEX). A single stranded
CC DNA pool was incubated with U251 cells, and the tighter binding sequences
CC partitioned from the rest of the pool by filtering the reaction through
CC nitrocellulose filters. Twenty rounds of selection were carried out,
CC using a decreasing concentration of U251 cells as the SELLEX progressed.
CC ligands to glioblastoma cell lines can be used in vivo to image
CC glioblastomas, and for the therapeutic localisation of the ligand or
CC other attached therapeutic agents
XX
SQ Sequence 70 BP; 11 A; 20 C; 14 G; 25 T; 0 U; 0 Other;
Query Match 57.6%; Score 14.4; DB 2; Length 70;
Best Local Similarity 75.0%; Pred. No. 3e+03;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 2 ATTAAGGGGCTGGCCCTTAATA 25
DB 60 ATTAAGGGGCTGGAGCTTAACA 37

RESULT 8
ID AAA78645 standard; DNA; 31 BP.
XX
AC AAA78645;
XX
DT 20-NOV-2000 (first entry)
XX
DE Human genomic DNA polymorphic site sequence tag SEQ ID NO:15.
XX
KW Human; genomic DNA; polymorphism; genome; allele-specific; primer; probe;
KW hybridisation; polymorphic site; forensic; paternity testing; medicine;
KW phenotypic trait; genetic analysis; genetic mapping; ds.
XX
OS Homo sapiens.
XX
PN EP1024200-A2.
XX
PD 02-AUG-2000.
XX
PF 26-JAN-2000; 2000EP-00250023.
XX
PR 27-JAN-1999; 99US-00238402.
XX
PS (AFPMY-) AFPMYMETRIX INC.
XX
PI Pacil N, Shah N, Warrington JA;
XX
DR WPI; 2000-500198/45.
XX
PT Human genomic polymorphic nucleic acid segments, allele specific primers
PT and probes, and methods of analysis, useful for e.g. forensics, paternity
PT testing, genetic mapping.
XX
PS Claim 1; Page 5; 141pp; English.
XX
CC The present invention describes a nucleic acid segment of 10-100
CC contiguous bases chosen from one of 632 fragments (AAA78631 to AAA79262),
CC where the segment comprises a polymorphic site or an immediately adjacent
CC base, or the complement of the segment. Also described are: (1) an allele
CC -specific oligonucleotide that hybridises to a segment of the novelty;
CC (2) an isolated nucleic acid comprising a sequence of the novelty where
CC the polymorphic site within the sequence is occupied by a base other than
CC the reference base indicated in the specification; and (3) analysing a
CC nucleic acid, comprising obtaining a nucleic acid from an individual, and
CC determining a base occupying any one of the polymorphic sites of the
CC novelty. The nucleic acid segments and method can be used to analyse an
CC individual's nucleic acid sequences for the presence of polymorphisms. The
CC method can also be used to test for a disease phenotype and correlate the
CC presence of the phenotype with a particular polymorphism. The presence of
CC polymorphic sites are useful for, e.g. forensics, paternity testing,
CC correlation of polymorphisms with phenotypic traits and for genetic
CC mapping of phenotypic traits. AAA78631 to AAA79262 represent sequence
CC tags of human genomic DNA fragments containing polymorphic sites. The
CC base occupying the polymorphic site is indicated using IUPAC-IUB
CC nomenclature
XX
SQ Sequence 31 BP; 3 A; 8 C; 8 G; 11 T; 0 U; 1 Other;
XX
Query Match 56.8%; Score 14.2; DB 3; Length 31;
Best Local Similarity 76.2%; Pred. No. 3.3e+03;
Matches 16; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
XX
QY 1 TATTAGGCGGCTGCCCCCTT 21
DB 9 TCTTCAGRGGAGCTGCTCTCTT 29

RESULT 9
ID AA069655 standard; DNA; 49 BP.
XX

AC AA069655;
XX
DT 25-MAR-2003 (revised)
DT 01-MAR-1995 (first entry)
XX
DE Human adenosine deaminase gene, target region.
XX
KW DNA protein-binding assay; test sequence; screening sequence; promoter;
KW target; TATA box; Herpes Simplex Virus; HSV; origin of replication; UL9;
KW transcription factor; TRID; ds.
XX
OS Synthetic.
XX
PN WO9414980-A1.
XX
PD 07-JUL-1994.
XX
PF 20-DEC-1993; 93WO-US012388.
XX
PR 23-DEC-1992; 92US-00996783.
PR 17-SEP-1993; 93US-00123936.
XX
PS (GENE-) GENELABS TECHNOLOGIES INC.
XX
PI Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;
XX
DR WPI, 1994-234711/28.
XX
PT Sequence-directed DNA-binding molecules - useful in pharmaceuticals and
PT as molecular reagents.
XX
PS Claim 28; Page 414; 587pp; English.
XX
CC A DNA protein-binding assay is provided, useful for screening libraries
CC of synthetic or biological cpds. for their ability to bind DNA test
CC sequences. The assay is versatile in that any number of test sequences
CC can be tested by placing the test sequence adjacent to a defined protein-
CC binding screening sequence. Binding of mole. to these test sequences
CC changes the binding characteristics of the protein mol. to its cognate
CC binding sequence. When such a mol. binds the test sequence, the
CC equilibrium of the DNA-protein complexes is disturbed, generating changes
CC in the concentration of free DNA probe. One application of this method is
CC to eucaryotic general transcription factors (e.g. TFIID), where the
CC target region is typically selected from DNA sequences adjacent to the
CC binding site for the eucaryotic transcription factor. Numerous exemplary
CC test sequences are given: the sequences in AA069251-731 and AA069850
CC correspond to promoter targets (typically, TATA box-cong. sites) for
CC human genes and the sequences in AA069732-849 correspond to promoter
CC targets for viral genes. The test sequences may also be randomly
CC generated. DNA:protein interaction may be used for screening purposes,
CC e.g. the Herpes Simplex Virus (HSV) origin of replication and UL9 (see
CC AA069851-52, AA069865 and AA069891). (updated on 25-MAR-2003 to correct
CC PN field.)
XX
SQ Sequence 49 BP; 6 A; 16 C; 24 G; 3 T; 0 U; 0 Other;
XX
Query Match 56.8%; Score 14.2; DB 2; Length 49;
Best Local Similarity 84.2%; Pred. No. 3.5e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
QY 7 GGGGCTTGGCCCTTAAATA 25
DB 10 GGGGCCCGGCCCTTAAAGA 28

RESULT 10
ID AA069655 standard; DNA; 49 BP.
XX
AC AA069655;
XX
DT 25-MAR-2003 (revised)
DT 01-MAR-1995 (first entry)

XX Human adenosine deaminase gene, target region.
 DE
 XX
 XX DNA protein-binding assay; test sequence; screening sequence; promoter;
 KM target; TATA box; Herpes Simplex Virus; HSV; origin of replication; UL9;
 KW transcription factor; TFIID; ds.
 XX
 OS Synthetic.
 XX
 XX WO9414980-A1.
 XX
 XX 07-JUL-1994.
 XX
 XX 20-DEC-1993; 93WO-US012388.
 XX
 XX 23-DEC-1992; 92US-0096783.
 XX
 XX 17-SEP-1993; 93US-00123936.
 XX
 XX (GENE-) GENELABS TECHNOLOGIES INC.
 XX
 XX Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;
 PI
 DR WPI; 1994-234711/26.
 XX
 PT Sequence-directed DNA-binding molecules - useful in pharmaceuticals and
 as molecular reagents.
 PT
 PS Claim 28; Page 414; 587pp; English.
 XX
 CC A DNA protein-binding assay is provided, useful for screening libraries
 of synthetic or biological cpds. for their ability to bind DNA test
 CC sequences. The assay is versatile in that any number of test sequences
 CC can be tested by placing the test sequence adjacent to a defined protein-
 CC binding screening sequence. Binding of mols. to these test sequences
 CC changes the binding characteristics of the protein mol. to its cognate
 CC binding sequence. When such a mol. binds the test sequence, the
 CC equilibrium of the DNA:protein complexes is disturbed, generating changes
 CC in the concentration of free DNA probe. One application of this method is
 CC to eucaryotic general transcription factors (e.g. TFIID), where the
 CC target region is typically selected from DNA sequences adjacent to the
 CC binding site for the eucaryotic transcription factor. Numerous exemplary
 CC test sequences are given: the sequences in AAQ69251-731 and AAQ69850
 CC correspond to promoter targets (typically, TATA box-contg. sites) for
 CC human genes and the sequences in AAQ69732-849 correspond to promoter
 CC targets for viral genes. The test sequences may also be randomly
 CC generated. DNA:protein interaction may be used for screening purposes,
 CC e.g. the Herpes Simplex Virus (HSV) origin of replication and UL9 (see
 CC AAQ69851-52, AAQ69865 and AAQ69891). (Updated on 25-MAR-2003 to correct
 CC PN field.)
 CC
 XX
 SQ Sequence 49 BP; 6 A; 16 C; 24 G; 3 T; 0 U; 0 Other;
 Query Match 56.8%; Score 14.2; DB 2; Length 49;
 Best Local Similarity 84.2%; Pred. No. 3.5e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 1 TATTAGGGGCGCTGGCCCC 19
 | ||||| ||||| |||||
 DB 28 TCTTAACGGGCGCGCGCCCC 10
 ||||| ||||| |||||
 RESULT 11
 AAT64117
 ID AAT64117 standard; DNA; 49 BP.
 XX
 XX AAT64117;
 XX
 AC AAT64117;
 XX
 DT 25-MAR-2003 (revised)
 DT 17-MAR-1997 (first entry)
 XX
 XX Human adenosine deaminase gene TFIID binding site.
 DE
 XX Duplex DNA; target region; binding characteristic; DNA binding protein;
 KW

KW TFIID; transcription factor; binding site; inhibition; enhance; cancer;
 KW inherited genetic disorder; ds.
 XX
 XX Homo sapiens.
 OS
 XX US5578444-A.
 XX
 XX 26-NOV-1996.
 XX
 XX 20-DEC-1993; 93US-00171389.
 XX
 XX 27-JUN-1991; 91US-00723618.
 XX
 XX 23-DEC-1992; 92US-0096783.
 XX
 XX 17-SEP-1993; 93US-00123936.
 XX
 XX (GENE-) GENELABS TECHNOLOGIES INC.
 XX
 XX Fry KE, Turin LM, Andrews BM, Cantor CR, Edwards CA;
 PI
 DR WPI; 1997-020402/02.
 XX
 PT Altering binding characteristics of DNA binding proteins to duplex DNA -
 PT by attaching specific small cpd. to target region close to the protein's
 PT binding site, useful in treatment of viral disease, cancer etc.
 XX
 XX Claim 6; Col 305-306; 264pp; English.
 XX
 CC The sequences given in AAT63713-4312 represent duplex DNA's which act as
 CC target regions in the method of the invention. The method for altering
 CC the binding characteristics of a DNA-binding protein to duplex DNA
 CC comprises contacting the duplex DNA with a small molecule which binds
 CC sequence-specifically to a target region, where, when the small molecule
 CC is bound to the target region, it is adjacent to, but not overlapping by
 CC more than 4 bp, a binding site for a DNA-binding protein. The small
 CC molecule is added at a concentration effective to alter the binding of
 CC the DNA binding protein, pref. TFIID, to its binding site on the duplex
 CC DNA. The binding of the small molecule may inhibit or enhance the binding
 CC of the DNA-binding protein to its binding site. The compounds isolated
 CC using this method are potentially useful as therapeutic agents for
 CC treatment of any disease which involves a specific DNA sequence, e.g.
 CC cancer, or inherited genetic disorders etc. The method is suitable for
 CC screening large biological or chemical libraries and allows determination
 CC of sequence-specific and relative affinities of known DNA-binding agents
 CC for different DNA sequences. The design of these duplex DNA's allows a
 CC single DNA:protein interaction to be used for screening sequence-
 CC specific, or preferential, DNA binding proteins that recognise almost any
 CC possible sequence (see also AAT49539-74). (Updated on 25-MAR-2003 to
 CC correct PF field.)
 CC
 XX
 SQ Sequence 49 BP; 6 A; 16 C; 24 G; 3 T; 0 U; 0 Other;
 Query Match 56.8%; Score 14.2; DB 2; Length 49;
 Best Local Similarity 84.2%; Pred. No. 3.5e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 7 GGGGCGCTGGCGCCCTTATA 25
 | ||||| ||||| |||||
 DB 10 GGGGCGCGCGCGCTTATA 28
 ||||| ||||| |||||
 RESULT 12
 AAT64117/c
 ID AAT64117 standard; DNA; 49 BP.
 XX
 XX AAT64117;
 XX
 AC AAT64117;
 XX
 DT 25-MAR-2003 (revised)
 DT 17-MAR-1997 (first entry)
 XX
 XX Human adenosine deaminase gene TFIID binding site.
 DE
 XX Duplex DNA; target region; binding characteristic; DNA binding protein;
 KW TFIID; transcription factor; binding site; inhibition; enhance; cancer;
 KW

KW Inherited genetic disorder; ds.
 XX
 OS Homo sapiens.
 XX
 PN US5578444-A.
 XX
 PD 26-NOV-1996.
 XX
 PF 20-DEC-1993; 93US-00171389.
 XX
 PR 27-JUN-1991; 91US-00723618.
 PR 23-DEC-1992; 92US-0096783.
 PR 17-SEP-1993; 93US-00123936.
 XX
 PA (GENE-) GENELABS TECHNOLOGIES INC.
 XX
 PI Fry KE, Turin LM, Andrews BM, Cantor CR, Edwards CA;
 XX
 DR WPI; 1997-020402/02.
 XX
 PT Altering binding characteristics of DNA binding proteins to duplex DNA -
 XX by attaching specific small cpd. to target region close to the protein's
 PT binding site, useful in treatment of viral disease, cancer etc.
 XX
 PS Claim 6; Col 305-306; 264pp; English.
 XX
 CC The sequences given in AAT63713-4312 represent duplex DNA's which act as
 CC target regions in the method of the invention. The method for altering
 CC the binding characteristics of a DNA-binding protein to duplex DNA
 CC comprises contacting the duplex DNA with a small molecule which binds
 CC sequence-specifically to a target region, where, when the small molecule
 CC is bound to the target region, it is adjacent to, but not overlapping by
 CC more than 4 bp, a binding site for a DNA-binding protein. The small
 CC molecule is added at a concentration effective to alter the binding of
 CC the DNA binding protein, pref. TPRID, to its binding site on the duplex
 CC DNA. The binding of the small molecule may inhibit or enhance the binding
 CC of the DNA-binding protein to its binding site. The compounds isolated
 CC using this method are potentially useful as therapeutic agents for
 CC treatment of any disease which involves a specific DNA sequence, e.g.
 CC cancer, or inherited genetic disorders etc. The method is suitable for
 CC screening large biological or chemical libraries and allows determination
 CC of sequence-specific and relative affinities of known DNA-binding agents
 CC for different DNA sequences. The design of these duplex DNA's allows a
 CC single DNA:protein interaction to be used for screening sequence-
 CC specific, or preferential, DNA binding proteins that recognise almost any
 CC possible sequence (see also AAT9359-74). (Updated on 25-MAR-2003 to
 CC correct PF field.)
 XX
 SQ Sequence 49 BP; 6 A; 16 C; 24 G; 3 T; 0 U; 0 Other;
 XX
 QY Query Match 56.8%; Score 14.2; DB 2; Length 49;
 XX Best Local Similarity 84.2%; Pred. No. 3.5e+03;
 XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 DB 1 TATTAGGGGGCTGGCCCC 19
 28 TCTTAACGGCGCGCGCCCC 10
 XX
 RESULT 13
 AAX17405
 ID AAX17405 standard; DNA; 49 BP.
 XX
 AC AAX17405;
 XX
 DT 06-MAY-1999 (first entry)
 XX
 DE Test sequence from human adenosine deaminase gene.
 XX
 KW Test sequence; DNA-binding molecule; screening sequence; human;
 KW nucleic acid amplification; target; viral; ds.
 XX
 OS Homo sapiens.

XX
 PN US5869241-A.
 XX
 PD 09-FEB-1999.
 XX
 PF 07-JUN-1995; 95US-00475228.
 XX
 PR 27-JUN-1991; 91US-00723618.
 PR 23-DEC-1992; 92US-0096783.
 PR 17-SEP-1993; 93US-00123936.
 PR 20-DEC-1993; 93US-00171389.
 XX
 PA (GENE-) GENELABS TECHNOLOGIES INC.
 XX
 PI Fry KE, Turin LM, Andrews BM, Cantor CR, Edwards CA;
 XX
 DR WPI; 1999-152755/13.
 XX
 PT Determination of DNA sequence preference of a DNA-binding molecule -
 XX based on inhibition of binding of protein to oligonucleotide sequence
 PT attached to test sequence.
 XX
 PS Claim 3; Col 307-308; 270pp; English.
 XX
 CC Sequences AAX17001 to AAX17600 represent specifically claimed target test
 CC sequences that are used in the method of the invention of determining the
 CC DNA sequence preference of a DNA-binding molecule. The method comprises:
 CC (i) adding a test molecule and a DNA-binding protein to a mixture of
 CC duplex DNA test oligonucleotides, each of the test oligonucleotides
 CC having a test sequence adjacent to a screening sequence, where the
 CC screening sequence binds to the DNA-binding protein with a binding
 CC affinity that is independent of the DNA sequence of the test sequence,
 CC and where the mixture of duplex DNA test oligonucleotides includes
 CC several test sequences; (ii) incubating the test molecule, the mixture of
 CC duplex DNA test oligonucleotides and the DNA-binding protein for a time
 CC sufficient to permit binding of the test molecule to test sequences in
 CC the duplex DNA; (iii) separating unbound test oligonucleotides from test
 CC oligonucleotides bound to binding protein; (iv) amplifying the unbound
 CC test oligonucleotides; (v) repeating steps (ii) to (iv); (vi) isolating
 CC the amplified test oligonucleotides; and (vii) sequencing the isolated
 CC test oligonucleotides. Test sequences AAX17001-X17481 and AAX17600
 CC correspond to promoter targets for human genes and test sequences
 CC AAX17482-X17599 correspond to promoter targets for viral genes
 XX
 SQ Sequence 49 BP; 6 A; 16 C; 24 G; 3 T; 0 U; 0 Other;
 XX
 QY Query Match 56.8%; Score 14.2; DB 2; Length 49;
 XX Best Local Similarity 84.2%; Pred. No. 3.5e+03;
 XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 DB 7 GGGGCTGGCGCCCTTAAT 25
 10 GGGGCGCGCGCGCTTAAGA 28
 XX
 RESULT 14
 AAX17405/C
 ID AAX17405 standard; DNA; 49 BP.
 XX
 AC AAX17405;
 XX
 DT 06-MAY-1999 (first entry)
 XX
 DE Test sequence from human adenosine deaminase gene.
 XX
 KW Test sequence; DNA-binding molecule; screening sequence; human;
 KW nucleic acid amplification; target; viral; ds.
 XX
 OS Homo sapiens.
 XX
 PN US5869241-A.
 XX
 PD 09-FEB-1999.

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XX
XX 07-JUN-1995; 95US-00475228.
XX
XX 27-JUN-1991; 91US-00723618.
XX
XX 23-DEC-1992; 92US-0096783.
XX
XX 17-SEP-1993; 93US-00123936.
XX
XX 20-DEC-1993; 93US-00171389.
XX
XX (GENE-) GENELABS TECHNOLOGIES INC.
XX
XX Fry KE, Turin LM, Andrews BM, Cantor CR, Edwards CA;
XX
XX WPI; 1999-152755/13.
XX
XX Determination of DNA sequence preference of a DNA-binding molecule -
XX based on inhibition of binding of protein to oligonucleotide sequence
XX attached to test sequence.
XX
XX
XX Claim 3; Col 307-308; 270pp; English.
XX
XX Sequences AAX17001 to AAX17600 represent specifically claimed target test
XX sequences that are used in the method of the invention of determining the
XX DNA sequence preference of a DNA-binding molecule. The method comprises:
XX (i) adding a test molecule and a DNA-binding protein to a mixture of
XX duplex DNA test oligonucleotides, each of the test oligonucleotides
XX having a test sequence adjacent to a screening sequence, where the
XX screening sequence binds to the DNA-binding protein with a binding
XX affinity that is independent of the DNA sequence of the test sequence,
XX and where the mixture of duplex DNA test oligonucleotides includes
XX several test sequences; (ii) incubating the test molecule, the mixture of
XX duplex DNA test oligonucleotides and the DNA-binding protein for a time
XX sufficient to permit binding of the test molecule to test sequences in
XX the duplex DNA; (iii) separating unbound test oligonucleotides from test
XX oligonucleotides bound to binding protein; (iv) amplifying the unbound
XX test oligonucleotides; (v) repeating steps (ii) to (iv); (vi) isolating
XX the amplified test oligonucleotides; and (vii) sequencing the isolated
XX test oligonucleotides. Test sequences AAX17001-X17481 and AAX17600
XX correspond to promoter targets for human genes and test sequences
XX AAX17482-X17593 correspond to promoter targets for viral genes
XX
XX
XX Sequence 49 BP; 6 A; 16 C; 24 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 56.8%; Score 14.2; DB 2; Length 49;
XX Best Local Similarity 84.2%; Pred. No. 3.5e+03;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1 TATTAAAGGCGCTGCGCCC 19
XX | | | | | | | | | |
XX 28 TCTTAACGGCGCGCGGCC 10
XX
XX RESULT 15
XX ABR82896
XX ID ABR82896 standard; DNA; 49 BP.
XX
XX AC ABR82896;
XX
XX
XX DT 27-AUG-2002 (first entry)
XX
XX
XX DNA binding molecule screening method test sequence #405.
XX
XX DNA binding molecule screening; inhibition of transcription; infection;
XX human immunodeficiency virus; HIV; parasite; cancer; cardiovascular;
XX respiratory; gastrointestinal; endocrine; metabolic; rheumatic;
XX immunological; haematological; neurological; psychiatric; dermatological;
XX ophthalmological; musculo-skeletal; urogenital disorder; ss.
XX
XX Synthetic.
XX
XX OS
XX
XX PN US6384208-B1.
XX
XX PD 07-MAY-2002.
XX

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PF 15-JUL-1999; 99US-00354947.
XX
XX 27-JUN-1991; 91US-00723618.
XX
XX 23-DEC-1992; 92US-0096783.
XX
XX 17-SEP-1993; 93US-00123936.
XX
XX 20-DEC-1993; 93US-00171389.
XX
XX 07-JUN-1995; 95US-00482080.
XX
XX (GENE-) GENELABS TECHNOLOGIES INC.
XX
XX Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;
XX
XX WPI; 2002-442819/47.
XX
XX Decreasing transcriptional activity of genes for treating infections or
XX cancer, by administration of an agent that binds to two non-overlapping
XX regions of the gene.
XX
XX
XX Example 15; SEQ ID NO 405; 98pp; English.
XX
XX
XX The invention relates to a method of decreasing transcriptional activity
XX in a duplex deoxyribonucleic acid (DNA) template (T1) comprising
XX contacting (T1) with a binding agent comprising at least one small duplex
XX DNA-binding molecule (T2) coupled to at least one other small duplex-
XX binding molecule that binds to a non-overlapping region of target
XX sequence (TS). The method is useful for inhibiting transcription of a
XX range of disease-related genes for treating infections (by viruses,
XX including human immunodeficiency virus, bacteria, fungi, protozoa and
XX parasites), cancer, cardiovascular, respiratory, gastrointestinal,
XX endocrine/metabolic, rheumatic/immunological, haematological,
XX neurological, psychiatric, dermatological, ophthalmological, musculo-
XX skeletal, genetic or urogenital disorders. The method provides sequence-
XX specific inhibition of transcription of pathological genes without
XX affecting transcription of cellular genes regulated by the same
XX transcription factor, and can be applied to regulation of any gene.
XX ABR82492-ABR83155 represent DNA binding molecule test sequences used in
XX the method of the invention
XX
XX
XX Sequence 49 BP; 6 A; 16 C; 24 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 56.8%; Score 14.2; DB 6; Length 49;
XX Best Local Similarity 84.2%; Pred. No. 3.5e+03;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 7 GGGGCTGGCGCCCTTAATA 25
XX | | | | | | | | | |
XX DB 10 GGGGCGCGCGCCGCTTAAGA 28
XX
XX Search completed: February 7, 2006, 13:57:24
XX Job time : 275 secs

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